Internal Revenue Service

EXTENDED TO MAY 15, 2019

Return of Organization Exempt From Income Tax

Under section 501(c), 527, or 4947(a)(1) of the Internal Revenue Code (except private foundations)

Do not enter social security numbers on this form as it may be made public. Go to www.irs.gov/Form990 for instructions and the latest information.

Open to Public Inspection:

A F	or the	2017 calendar year, or tax year beginning JUL 1, 2017 and	ending J	<u>TUN 30, 2018</u>			
Во	heck if	C Name of organization	•	D Employer identific	ation number		
•	pplicable	AMERICAN SOCIETY OF HEATING,					
Address REFRIGERATING AND A-C ENGINEERS, INC.							
	Name change	Doing business as	13-5675095				
	Initial return		Room/suite	E Telephone number	,		
	Final return/	1791 TULLIE CIRCLE N.E.) 636-8400		
	termin sted	City or town, state or province, country, and ZIP or foreign postal code		G Gross receipts \$	29,679,630.		
	Amend			H(a) Is this a group re			
\vdash	Applic				? Yes X No		
	pendir	SAME AS C ABOVE		H(b) Are all subordinates in			
	ax-axe	empt status: 🗶 501(c)(3) 🔲 501(c) ()◀ (insert no.) 🔲 4947(a)(1) o	or 52/	n / 1	list. (see instructions)		
	_	e: NWW.ASHRAE.ORG	<u>, </u>	H(c) Group exemption	•		
		organization: X Corporation	L Year		State of legal domicile: NY		
P		Summary	1	OTTOTTIQUOTI, 2022 I	Olizio di logal dollilolib. 14 1		
بنا		Briefly describe the organization's mission or most significant activities: THE 1	MTSSIC	N OF AMERIC	AN SOCTETY		
Activities & Governance		OF HEATING, REFRIGERATING AND AIR-CONDIT					
Ē		Check this box					
\$	ı	•			31		
Ĝ		Number of independent voting members of the governing body (Part VI, line 1b)			31		
4		Total number of individuals employed in calendar year 2017 (Part V, line 2a)			132		
<u> </u>		Total number of volunteers (estimate if necessary)			1522		
Ž		Total unrelated business revenue from Part VIII, column (C), line 12	••••••	7a	4,207,378.		
¥							
_	-	Net unrelated business taxable income from Form 990-T, line 34	T		282,359.		
		Contributions and smate (Bort \/III line 1h)	\vdash	Prior Year	Current Year		
2		Contributions and grants (Part VIII, line 1h)		2,157,761.	2,160,094.		
Revenue		Program service revenue (Part VIII, line 2g)		20,993,505.	21,313,367.		
æ		Investment income (Part VIII, column (A), lines 3, 4, and 7d)		<u>579,756.</u>	811,149.		
	1	Other revenue (Part VIII, column (A), lines 5, 6d, 8c, 9c, 10c, and 11e)		5,190,599.	5,004,810.		
_		Total revenue - add lines 8 through 11 (must equal Part VIII, column (A), line 12)		28,921,621.	<u>29,289,420.</u>		
	1	Grants and similar amounts paid (Part IX, column (A), lines 1-3)	├	<u>113,766.</u> 0.	119,503.		
	14	Benefits paid to or for members (Part IX, column (A), line 4)			10 605 710		
8	15	Salaries, other compensation, employee penality (EAC) (FIDIO), lines 5-10)		11,830,492.	12,605,712.		
Ë	16a	Professional fundraising fees (Part IX, co (In) (A), line 11e)		0.	0.		
Expenses	_b	Total fundraising expenses (Part IX, column (D), In (25)	<u>44.</u>	15 106 140	45 446 604		
_	17	Other expenses (Part IX, column (A), lines 1(19-14-d, 117-24e)		17,196,142.	17,416,604.		
	18	Other expenses (Part IX, column (A), lines 1(18-14d, 117-24e) Total expenses. Add lines 13-17 (must equal Part Column (A), line 23 Revenue less expenses. Subtract line 18 from line 12-18-19-19-19-19-19-19-19-19-19-19-19-19-19-	······- 	29,140,400.	30,141,819.		
. 0	19	Revenue less expenses. Subtract line 18 from line 12-12-12-12-12-12-12-12-12-12-12-12-12-1		-218,779.	-852,399.		
28 28 28	20 21 22		<u> Bo</u>	eginning of Current Year	End of Year		
255 255 256	20	Total assets (Part X, line 16)		32,109,606.	32,567,448.		
뚫	21	Total liabilities (Part X, line 26)		12,807,041.	13,469,094.		
좒	22	Net assets or fund balances. Subtract line 21 from line 20		<u>19,302,565.</u>	19,098,354.		
_	art II	Signature Block					
		lities of perjury, I declare that I have examined this return, including accompanying schedule			y knowledge and belief, it is		
true	, correc	t, and complete. Declaration of prepare (other pan officer) is based on all information of wi	hich prepare	r has any knowledge.			
		Signature of officer		May	15,2019		
Sig	n	· / **		Date			
Her	.6	JEFF LITTLETON SECRETARY					
		Type or print name and title	·	Date Levi P	T STIN		
		Print/Type preparer's name Priparer's signature	أمدم	Date Check	PTIN		
Paid		G. BLISS JONES 77. Non Gran	- 471	self-employ			
_	parer	Firm's name JONES AND KOLB		/ Firm's EIN	58-1763570		
USB	Only	Firm's address 3475 PIEDMONT ROAD NE, SUITE 15	UU		041060 5666		
_		ATLANTA, GA 30305		Phone no. (4	04)262-7920		
Ma	y t <u>he</u> li	RS discuss this return with the preparer shown above? (see instructions)			X Yes No		
7320	01 11-2	8-17 LHA For Paperwork Reduction Act Notice, see the separate instruction	ons.	, .	Form 990 (2017)		

	AMERICAN SOCIETY OF HEATING,
Form	990 (2017) REFRIGERATING AND A-C ENGINEERS, INC. 13-5675095 Page 2
Pa	rt III: Statement of Program Service Accomplishments
	Check if Schedule O contains a response or note to any line in this Part III
1	Bhefly describe the organization's mission:
	THE MISSION OF AMERICAN SOCIETY OF HEATING, REFRIGERATING AND
	AIR-CONDITIONING ENGINEERS, INC. ("ASHRAE") IS TO ADVANCE THE ARTS AND
	SCIENCES OF HEATING, VENTALATING AND REFRIGERATING TO SERVE HUMANITY
	AND PROMOTE A SUSTAINABLE WORLD.
2	Did the organization undertake any significant program services during the year which were not listed on the
	prior Form 990 or 990-EZ?
	If "Yes," describe these new services on Schedule O.
3	Did the organization cease conducting, or make significant changes in how it conducts, any program services?
	If "Yes," describe these changes on Schedule O.
4	Describe the organization's program service accomplishments for each of its three largest program services, as measured by expenses.
	Section 501(c)(3) and 501(c)(4) organizations are required to report the amount of grants and allocations to others, the total expenses, and
	revenue, if any, for each program service reported.
48	(Code:) (Expenses \$ 9,492,900. Including grants of \$) (Revenue \$ 7,392,028.)
	PUBLISHING AND EDUCATION - INCLUDING ELECTRONIC COMMUNICATIONS,
	HANDBOOK, PROFESSIONAL DEVELOPMENT, PUBLICATIONS AND SOCIETY PROGRAMS.
4b	(Code:) (Expenses \$6,072,400. Including grants of \$) (Revenue \$7,772,752.)
40	(Code:) (Expenses \$6, 0.72, 400. Including grants of \$) (Revenue \$7, 772, 752.) MEMBERS' COUNCIL - INCLUDING ADMISSIONS AND ADVANCEMENT, REGIONAL
	CHAPTERS, HONORS & AWARDS AND MEETINGS
4c	(Code:) (Expenses \$ 2,660,111. Including grants of \$ 119,503.) (Revenue \$ 62,905.)
	RESEARCH - INCLUDING ALTERNATIVE REFRIGERANTS, INDOOR AIR QUALITY,
	ENERGY CONSERVATION, DESINGING TOOLS, HEALTH & SAFETY, REFRIGERATION
	AND FOOD PROCESSING AND PRESERVATION.
4d	Other program services (Describe in Schedule O.)
	(Expenses \$ 1,882,800 a including grants of \$) (Revenue \$ 6,883,114 a)
40	Total program service expenses ▶ 20,108,211.
	Form 990 (2017)

AMERICAN SOCIETY OF HEATING, Form 990 (2017) REFRIGERATING AND A-C ENGINEERS Part IV Checklist of Required Schedules

			Yes	No
1	, is the organization described in section 501(c)(3) or 4947(a)(1) (other than a private foundation)?		100	140
•	If "Yes," complete Schedule A	,	x	
2	Is the organization required to complete Schedule B, Schedule of Contributors	2	X	
3	Did the organization engage in direct or indirect political campaign activities on behalf of or in opposition to candidates for		_	
•	public office? If "Yes," complete Schedule C, Part I	3		X
4	Section 501(c)(3) organizations. Did the organization engage in lobbying activities, or have a section 501(h) election in effect			42
•	during the tax year? If "Yes," complete Schedule C, Part II	4	x	
5	Is the organization a section 501(c)(4), 501(c)(5), or 501(c)(6) organization that receives membership dues, assessments, or		-	
	similar amounts as defined in Revenue Procedure 98-19? If "Yes," complete Schedule C, Part III	5		x
6	Did the organization maintain any donor advised funds or any similar funds or accounts for which donors have the right to			
	provide advice on the distribution or investment of amounts in such funds or accounts? If "Yes," complete Schedule D, Part I	8		X
7	Did the organization receive or hold a conservation easement, including easements to preserve open space,			
	the environment, historic land areas, or historic structures? If "Yes," complete Schedule D, Part II	7		X
8	Did the organization maintain collections of works of art, historical treasures, or other similar assets? If "Yes," complete			
	Schedule D, Part III	8		X
9	Did the organization report an amount in Part X, line 21, for escrow or custodial account liability, serve as a custodian for			
	amounts not listed in Part X; or provide credit counseling, debt management, credit repair, or debt negotiation services?			
	If "Yes," complete Schedule D, Part IV	9		X
10	Did the organization, directly or through a related organization, hold assets in temporarily restricted endowments, permanent			
	endowments, or quasi-endowments? If "Yes," complete Schedule D, Part V	10	X	
11	If the organization's answer to any of the following questions is "Yes," then complete Schedule D, Parts VI, VIII, VIII, IX, or X			
	as applicable.		١.	
2	Did the organization report an amount for land, buildings, and equipment in Part X, line 10? If "Yes," complete Schedule D,			
	Part VI	11a	X	
b	Did the organization report an amount for investments - other securities in Part X, line 12 that is 5% or more of its total			
	assets reported in Part X, line 16? If "Yes," complete Schedule D, Part VII	11b		Х
C	Did the organization report an amount for investments - program related in Part X, line 13 that is 5% or more of its total			
	assets reported in Part X, line 16? If "Yes," complete Schedule D, Part VIII	11c		X
d	Did the organization report an amount for other assets in Part X, line 15 that is 5% or more of its total assets reported in			
	Part X, line 16? If "Yes," complete Schedule D, Part IX	11d		X
	Did the organization report an amount for other liabilities in Part X, line 25? If "Yes," complete Schedule D, Part X	11e	X	<u> </u>
f	Did the organization's separate or consolidated financial statements for the tax year include a footnote that addresses	ļ		İ
	the organization's liability for uncertain tax positions under FIN 48 (ASC 740)? If "Yes," complete Schedule D, Part X	111		X
1 2a	Did the organization obtain separate, independent audited financial statements for the tax year? If "Yes," complete			l
	Schedule D, Parts XI and XII	12a		X
b	Was the organization included in consolidated, independent audited financial statements for the tax year?		<u></u>	
	If "Yes," and if the organization answered "No" to line 12a, then completing Schedule D, Parts XI and XII is optional	12b	X	<u> </u>
13	Is the organization a school described in section 170(b)(1)(A)(ii)? If "Yes," complete Schedule E	_13_		X
14a		14a	X	ļ
b	Did the organization have aggregate revenues or expenses of more than \$10,000 from grantmaking, fundraising, business,			
	investment, and program service activities outside the United States, or aggregate foreign investments valued at \$100,000	441		
45	or more? If "Yes," complete Schedule F, Parts I and IV	14b		X
15	Did the organization report on Part IX, column (A), line 3, more than \$5,000 of grants or other assistance to or for any	4-		
40	foreign organization? If "Yes," complete Schedule F, Parts II and IV Did the organization report on Part IX, column (A), line 3, more than \$5,000 of aggregate grants or other assistance to	15		X
16	or for foreign individuals? If "Yes," complete Schedule F, Parts III and IV	16	x	
17	Did the organization report a total of more than \$15,000 of expenses for professional fundraising services on Part IX,	10	<u> </u>	\vdash
17	column (A), lines 6 and 11e? If "Yes," complete Schedule G, Part I	17		x
18	Did the organization report more than \$15,000 total of fundraising event gross income and contributions on Part VIII, lines	 ''		 ^
	1c and 8a? If "Yes," complete Schedule G, Part II	18	ļ	x
19	Did the organization report more than \$15,000 of gross income from garning activities on Part VIII, line 9a? /f "Yes,"	<u> </u>		
	complete Schedule G. Part III	19		x

Form 990 (2017) REFRIGERATING AND
Part IV Checklist of Required Schedules (continued)

	, 1.,	-	Yes	No
20a .	Did the organization operate one or more hospital facilities? If "Yes," complete Schedule H	20a		X
	If "Yes" to line 20a, did the organization attach a copy of its audited financial statements to this return?	20b		
21	Did the organization report more than \$5,000 of grants or other assistance to any domestic organization or			
	domestic government on Part IX, column (A), line 1? If "Yes," complete Schedule I, Parts I and II	21		X
22	Did the organization report more than \$5,000 of grants or other assistance to or for domestic individuals on			
	Part IX, column (A), line 2? If "Yes," complete Schedule I, Parts I and III	22	X	
23	Did the organization answer "Yes" to Part VII, Section A, line 3, 4, or 5 about compensation of the organization's current			
	and former officers, directors, trustees, key employees, and highest compensated employees? If "Yes," complete			
	Schedule J	_23	X	
24a	Did the organization have a tax-exempt bond issue with an outstanding principal amount of more than \$100,000 as of the			
	last day of the year, that was issued after December 31, 2002? if "Yes," answer lines 24b through 24d and complete		İ	
	Schedule K. If "No", go to line 25a	24a		X
b	Did the organization invest any proceeds of tax-exempt bonds beyond a temporary period exception?	24b		
C	Did the organization maintain an escrow account other than a refunding escrow at any time during the year to defease			ł
	any tax-exempt bonds?	24c	<u> </u>	
d	Did the organization act as an "on behalf of" issuer for bonds outstanding at any time during the year?	24d		
25 a	Section 501(c)(3), 501(c)(4), and 501(c)(29) organizations. Did the organization engage in an excess benefit	ļ		
	transaction with a disqualified person during the year? If "Yes," complete Schedule L, Part I	25a	L	X
b	is the organization aware that it engaged in an excess benefit transaction with a disqualified person in a prior year, and			
	that the transaction has not been reported on any of the organization's prior Forms 990 or 990-EZ? If "Yes," complete			
	Schedule L, Part I	25b		X
26	Did the organization report any amount on Part X, line 5, 6, or 22 for receivables from or payables to any current or	1	\ '	1
	former officers, directors, trustees, key employees, highest compensated employees, or disqualified persons? If "Yes,"			
	complete Schedule L, Part II	26	 	X
27	Did the organization provide a grant or other assistance to an officer, director, trustee, key employee, substantial			
	contributor or employee thereof, a grant selection committee member, or to a 35% controlled entity or family member			
	of any of these persons? If "Yes," complete Schedule L, Part III	27	├-	X
28	Was the organization a party to a business transaction with one of the following parties (see Schedule L, Part IV			
_	instructions for applicable filing thresholds, conditions, and exceptions):	-	١,	_~
	A current or former officer, director, trustee, or key employee? If "Yes," complete Schedule L, Part IV	28a	\vdash	X
	An entity of which a current or former officer, director, trustee, or key employee (or a family member thereof) was an officer,	28b	 -	_
C	director, trustee, or direct or indirect owner? If "Yes," complete Schedule L, Part IV	28c		x
29	Did the organization receive more than \$25,000 in non-cash contributions? If "Yes," complete Schedule M	29		X
30	Did the organization receive contributions of art, historical treasures, or other similar assets, or qualified conservation		\vdash	
•	contributions? If "Yes," complete Schedule M	30		x
31	Did the organization liquidate, terminate, or dissolve and cease operations?		<u> </u>	<u></u>
	If "Yes," complete Schedule N, Part I	31]	х
32	Did the organization sell, exchange, dispose of, or transfer more than 25% of its net assets? If "Yes," complete			
	Schedule N, Part II	32	L	x
33	Did the organization own 100% of an entity disregarded as separate from the organization under Regulations			
	sections 301.7701-2 and 301.7701-3? If "Yes," complete Schedule R, Part I	33		X
34	Was the organization related to any tax-exempt or taxable entity? If "Yes," complete Schedule R, Part II, III, or IV, and			
	Part V, line 1	34	X	
35a	Did the organization have a controlled entity within the meaning of section 512(b)(13)?	35a		X
b	If "Yes" to line 35a, did the organization receive any payment from or engage in any transaction with a controlled entity			
	within the meaning of section 512(b)(13)? If "Yes," complete Schedule R, Part V, line 2	35b		L
36	Section 501(c)(3) organizations. Did the organization make any transfers to an exempt non-charitable related organization?			
	If "Yes," complete Schedule R, Part V, line 2	36	<u> </u>	X
37	Did the organization conduct more than 5% of its activities through an entity that is not a related organization			
	and that is treated as a partnership for federal income tax purposes? If "Yes," complete Schedule R, Part VI	37	-	X
38	Did the organization complete Schedule O and provide explanations in Schedule O for Part VI, lines 11b and 19?			
	Note. All Form 990 filers are required to complete Schedule O	38	X	Щ.

Form 990 (2017) REFRIGERATING AND A-C ENGINEERS,

[Part V: Statements Regarding Other IRS Filings and Tax Compliance INC.

<u> </u>	Chack if Schedule O contains a response or note to any line in this Part V					
	, 1				Yes	No
1a	Enter the number reported in Box 3 of Form 1096. Enter -0- if not applicable	1a	85			1.10
	Enter the number of Forms W-2G included in line 1a. Enter -0- if not applicable		0			١.
	Did the organization comply with backup withholding rules for reportable payments to vendors and					١,٠
	(gambling) winnings to prize winners?	•	-	1c	x	
2a	Enter the number of employees reported on Form W-3, Transmittal of Wage and Tax Statements,	1				
	filed for the calendar year ending with or within the year covered by this return	2a	132	•		
b	If at least one is reported on line 2a, did the organization file all required federal employment tax retu	ıms?		2b	X	
	Note. If the sum of lines 1a and 2a is greater than 250, you may be required to e-file (see instruction					1
3a	Did the appealant as the constraint of the const			3a	X	•
b	If "Yes," has it filed a Form 990-T for this year? If "No," to line 3b, provide an explanation in Schedule	0		3b	X	
4a	At any time during the calendar year, did the organization have an interest in, or a signature or other	autho	rity over, a			
	financial account in a foreign country (such as a bank account, securities account, or other financial	accou	int)?	4a	X	
b	If "Yes," enter the name of the foreign country: ► CANADA					
	See instructions for filing requirements for FinCEN Form 114, Report of Foreign Bank and Financial	Accou i	nts (FBAR).	٠,٠:		
5 a	Was the organization a party to a prohibited tax shelter transaction at any time during the tax year?			5a		X
b	Did any taxable party notify the organization that it was or is a party to a prohibited tax shelter trans			5b		Х
C	If "Yes," to line 5a or 5b, did the organization file Form 8886-T?			5c		
6 a	—					
	any contributions that were not tax deductible as charitable contributions?	• • • • • • • • • • • • • • • • • • • •		6a		X
b	If "Yes," did the organization include with every solicitation an express statement that such contribu	tions o	or gifts			T
	were not tax deductible?		***************************************	6b		
7	Organizations that may receive deductible contributions under section 170(c).					
8	Did the organization receive a payment in excess of \$75 made partly as a contribution and partly for goods and so	ervices	provided to the payor?	7a		X
þ			••••••	7b		
C	Did the organization sell, exchange, or otherwise dispose of tangible personal property for which it v	vas rec	quired			
	to file Form 8282?	······	·······	7c		X
d	If "Yes," indicate the number of Forms 8282 filed during the year	7d	<u> </u>			
•	Did the organization receive any funds, directly or indirectly, to pay premiums on a personal benefit		ct?	7e		↓
f	Did the organization, during the year, pay premiums, directly or indirectly, on a personal benefit confidence of the organization of the personal benefit confidence or the organization of the organization o			71	<u> </u>	—
8	If the organization received a contribution of qualified intellectual property, did the organization file F			70		—-
h	If the organization received a contribution of cars, boats, airplanes, or other vehicles, did the organization			7h	ļ	_
8	Sponsoring organizations maintaining donor advised funds. Did a donor advised fund maintaine	d by th	18			1
_	sponsoring organization have excess business holdings at any time during the year?	•••••		8		-
9	Sponsoring organizations maintaining donor advised funds.			. '		'
-	Did the sponsoring organization make any taxable distributions under section 4966?	•••••	••••••	9a	-	\vdash
b 10	Did the sponsoring organization make a distribution to a donor, donor advisor, or related person? Section 501(c)(7) organizations. Enter:	•••••	••••••	9b		+
	Initiation fees and capital contributions included on Part VIII, line 12	140-	1			
a b	Gross receipts, included on Form 990, Part VIII, line 12, for public use of club facilities	10a	 			
11	Section 501(c)(12) organizations. Enter:		<u> </u>			
	Gross income from members or shareholders	118	1			- <u>.</u>
b	Gross income from other sources (Do not net amounts due or paid to other sources against	110				·
-	amounts due or received from them.)	116		٠	١. ٠	
12a	Section 4947(a)(1) non-exempt charitable trusts, is the organization filing Form 990 in lieu of Form		?	12a		
ь	If "Yes," enter the amount of tax-exempt interest received or accrued during the year	126	į l			
13	Section 501(c)(29) qualified nonprofit health insurance issuers.	12.00			<u>:</u>	
	Is the organization licensed to issue qualified health plans in more than one state?			13a		一
_	Note. See the instructions for additional information the organization must report on Schedule O.	•••••••	••••••••	٠.	· .	ţ.
b	Enter the amount of reserves the organization is required to maintain by the states in which the					 .
	organization is licensed to issue qualified health plans	13b	1			
C	Enter the amount of reserves on hand	13c				•
14a	Did the organization receive any payments for indoor tanning services during the tax year?			14a		X
_b	If "Yes," has it filed a Form 720 to report these payments? If "No," provide an explanation in Schedu	le O	***************************************	14b	L	

Part VI Governance, Management, and Disclosure For each "Yes" response to lines 2 through 7b below, and for a "No" response

	to line da, db, or 10b below, describe the circumstances, processes, or changes in Schedule C. See instructions.			X
<u></u>	tion A. Governing Body and Management			IA.
<u>38</u> C	don A. Governing body and management		Yes	No
18	Enter the number of voting members of the governing body at the end of the tax year		100	NO
18	If there are material differences in voting rights among members of the governing body, or if the governing	ŀ'	:	•
	body delegated broad authority to an executive committee or similar committee, explain in Schedule O.			
	Enter the number of voting members included in line 1a, above, who are independent	.		
þ	Did any officer, director, trustee, or key employee have a family relationship or a business relationship with any other	ľ. l	• :	-
2	·	2		x
2	officer, director, trustee, or key employee? Did the organization delegate control over management duties customarily performed by or under the direct supervision	-	_	
3	of officers, directors, or trustees, or key employees to a management company or other person?	₃		X
	Did the organization make any significant changes to its governing documents since the prior Form 990 was filed?	4	-	X
5	Did the organization become aware during the year of a significant diversion of the organization's assets?	5		X
8	Did the organization have members or stockholders?	6	<u> </u>	
7 a	Did the organization have members, stockholders, or other persons who had the power to elect or appoint one or			
/ 4	more members of the governing body?	7a	X	
	Are any governance decisions of the organization reserved to (or subject to approval by) members, stockholders, or	'a		
D	persons other than the governing body?	7b	X	1
	Did the organization contemporaneously document the meetings held or written actions undertaken during the year by the following:	'''		
•	The governing body?	8a	X	' '
, 5	Each committee with authority to act on behalf of the governing body?	8b	X	\vdash
φ	Is there any officer, director, trustee, or key employee listed in Part VII, Section A, who cannot be reached at the	60		\vdash
A	organization's mailing address? If "Yes," provide the names and addresses in Schedule O	9		x
Sec	tion B. Policies (This Section B requests information about policies not required by the Internal Revenue Code.)			
000	tion D. 1 Onotoo (mis Section & requests information about policies not required by the internal nevertue Code.)		Yes	No
10a	Did the organization have local chapters, branches, or affiliates?	10a	X	140
	If "Yes," did the organization have written policies and procedures governing the activities of such chapters, affiliates,	100		\vdash
	and branches to ensure their operations are consistent with the organization's exempt purposes?	10b	X	1
118	the bloom of the control of the cont	11a	X	
b				
128	Pod the grand and a second and	12a	X	
b	Miles Marie Company of the Mar	12b	X	-
-	Did the organization regularly and consistently monitor and enforce compliance with the policy? If "Yes," describe	120		
_	in Schedule O how this was done	12c	x	
13	Did the organization have a written whistleblower policy?	13	X	
14	Did the organization have a written document retention and destruction policy?	14	X	
15	Did the process for determining compensation of the following persons include a review and approval by independent			
	persons, comparability data, and contemporaneous substantiation of the deliberation and decision?		•	
	The organization's CEO, Executive Director, or top management official	15a	X	
b	Other officers or key employees of the organization	15b	X	l
-	If "Yes" to line 15a or 15b, describe the process in Schedule O (see instructions).		<u>, </u>	
1 6 a	Did the organization invest in, contribute assets to, or participate in a joint venture or similar arrangement with a		٠.	'
	taxable entity during the year?	16a		х
b	If "Yes," did the organization follow a written policy or procedure requiring the organization to evaluate its participation		,	
_	in joint venture arrangements under applicable federal tax law, and take steps to safeguard the organization's	\		
	exempt status with respect to such arrangements?	16b		
Sec	tion C. Disclosure			
17	List the states with which a copy of this Form 990 is required to be filed >GA, AL, AK, AZ, AR, CA, CO, CT, DC	DE	,FL	HI
18	Section 6104 requires an organization to make its Forms 1023 (or 1024 if applicable), 990, and 990-T (Section 501(c)(3)s only)			
	for public inspection. Indicate how you made these available. Check all that apply.			
	Own website X Another's website X Upon request Other (explain in Schedule O)			
19	Describe in Schedule O whether (and if so, how) the organization made its governing documents, conflict of interest policy, an	d finan	cial	
	statements available to the public during the tax year.			
20	State the name, address, and telephone number of the person who possesses the organization's books and records:			
	ASHRAE, INC. C/O CRAIG WRIGHT - 404-636-8400			
	1791 TULLIE CIRCLE NE, ATLANTA, GA 30329-2305			

Form 990 (2017) REFRIGERATING AND A-C ENGINEERS, INC. 13-5
Part VII Compensation of Officers, Directors, Trustees, Key Employees, Highest Compensated
Employees, and Independent Contractors

· Check if Schedule O contains a response or note to any line in this Part VII

Section A. Officers, Directors, Trustees, Key Employees, and Highest Compensated Employees

- 1a Complete this table for all persons required to be listed. Report compensation for the calendar year ending with or within the organization's tax year.
- List all of the organization's current officers, directors, trustees (whether individuals or organizations), regardless of amount of compensation. Enter -0- in columns (D), (E), and (F) if no compensation was paid.
 - List all of the organization's current key employees, if any. See instructions for definition of "key employee."
- List the organization's five current highest compensated employees (other than an officer, director, trustee, or key employee) who received reportable compensation (Box 5 of Form W-2 and/or Box 7 of Form 1099-MISC) of more than \$100,000 from the organization and any related organizations.
- List all of the organization's former officers, key employees, and highest compensated employees who received more than \$100,000 of reportable compensation from the organization and any related organizations.
- List all of the organization's former directors or trustees that received, in the capacity as a former director or trustee of the organization, more than \$10,000 of reportable compensation from the organization and any related organizations.

List persons in the following order: Individual trustees or directors; institutional trustees; officers; key employees; highest compensated employees; and former such persons.

(A) Name and Title	(B) Average	_D ,			(C) Position			(D) Reportable	(E)	(F)	
Hame and Tide	hours per	(do	(do not check m box, unless pers			then	one h en	compensation	Reportable compensation	Estimated amount of	
	week	offi	cer an	id a d	lrect:	ar/true	tee)	from	from related	other	
	(list any hours for	물				L		the organization	organizations (W-2/1099-MISC)	compensation from the	
	related	5	異					(W-2/1099-MISC)	(AA-51 1088-M12C)	organization	
	organizations	星	를		曹	E _		(and related	
	below	Individual	institutional 1	8	Key employee	Highest compensate employee	曺			organizations	
	line)	罩	臣		5	至夏	퉏				
(1) PROF BJARNE WILKENS OLESEN, PHD	50.00			l		l				_	
PRESIDENT	20.00	X		X		⊢	-	0.	0.	0	
(2) SHEILA J HAYTER	20.00					ļ		02 014		•	
PRESIDENT - ELECT	15.00	X	├	X		⊢	├	23,814.	0.	0	
(3) DARRYL K BOYCE, P.ENG. TREASURER	15.00	x		x	1			0.	0.	0	
(4) DR. JULIA A KEEN	20.00				-	├─			<u></u>	<u>0</u>	
VICE PRESIDENT	20100	X		x		l		1,986.	0.	0	
(5) MICHAEL CA SCHWEDLER	15.00			-	╅	\vdash	Т	1,3001			
VICE PRESIDENT		x		x				6,764.	٥.	0	
(6) M GINGER SCOGGINS	10.00									<u>_</u>	
VICE PRESIDENT		X		X				7,262.	0.	0	
(7) EDWARD KA CHEUNG TSUI	4.00										
VICE PRESIDENT		X	<u> </u>	X		L		0.	0.	0	
(8) JEFF H LITTLETON	60.00					1					
SECRETARY	1.00	X		X	_	ــــ	L	366,042.	0.	34,831	
(9) WILLIAM F. WALTER	8.00	l							_	_	
DIRECTOR	10.00	X	_	<u> </u>	<u> </u>	┢	<u> </u>	0.	0.	0	
(10) DOUGLAS C. COCHRANE, P. ENG.	10.00	 							•	•	
DIRECTOR	4.00	X		┝	├	⊢	┝	0.	0.	0	
(11) ROGER K. JONES DIRECTOR	4.00	x				•		0.	0.	0	
(12) GEORGE W AUSTIN	6.00	A	-			┢	├─	· · ·			
DIRECTOR	0.00	X				1		0.	0.	0	
(13) DOUGLAS D FICK, PE	5.00	 ^	1			H	┢				
DIRECTOR		x				ŀ		0.	0.	. 0	
(14) BENJAMIN A SKELTON	8.00				\Box					<u></u>	
DIRECTOR		x						0.	0.	0	
(15) MICHAEL P COOPER, PE	15.00								-		
DIRECTOR		X		<u> </u>	Ц_		_	0.	0.	0	
(16) JONATHAN I SYMKO	10.00				ĺ	1					
DIRECTOR		X	<u> </u>	<u> </u>	<u> </u>	<u> </u>	_	0.	0.	0	
(17) TRENTON S HUNT	6.00				l					_	
DIRECTOR 782007 11-28-17	<u></u>	X				<u> </u>	<u> </u>	0.	0.	0 Form 990 (201	

Form 990 (2017) Part VII | Section A. Officers, Directors, Trustees, Key Employees, and Highest Compensated Employees (continued) (F) (A) (D) (E) Position Average Reportable Reportable **Estimated** Name and title (do not check more than one hours per amount of compensation compensation box, unless person is both an officer and a director/trustee) week other from from related (list anv the organizations compensation hours for (W-2/1099-MISC) organization from the related organization (W-2/1099-MISC) organizations and related below organizations line) 14.00 (18) MARITES DAGULO CALAD ٥. 0 0 DIRECTOR 2.00 (19) KEITH YELTON 0 0 0. DIRECTOR 15.00 (20) DANIEL R ROGERS, PE 0 0 0. DIRECTOR 2.00 (21) NG YONG KONG, P. ENG., GBIF 0 0 DIRECTOR 5.00 (22) DR CONSTANTINOS A BALARAS, PHD. 0 0 2.00 (23) FAROOQ MEHBOOB 0 0 0. DIRECTOR 4.00 (24) VAN D BAXTER, PE 0 0 0. DIRECTOR 15.00 (25) ERICH BINDER 0 0 0. DIRECTOR 12.00 (26) DONALD L BRANDT 0 0. ٥. DIRECTOR 405,868. 0 34.831. c Total from continuation sheets to Part VII, Section A ,315,051. 0. 151,718. d Total (add lines 1b and 1c) 1,720,919. 186,549. Total number of individuals (including but not limited to those listed above) who received more than \$100,000 of reportable compensation from the organization Yes No 3 Did the organization list any former officer, director, or trustee, key employee, or highest compensated employee on line 1a? If "Yes," complete Schedule J for such individual 3 4 For any individual listed on line 1a, is the sum of reportable compensation and other compensation from the organization and related organizations greater than \$150,000? If "Yes," complete Schedule J for such individual 5 Did any person listed on line 1a receive or accrue compensation from any unrelated organization or individual for services rendered to the organization? If "Yes," complete Schedule J for such person. Section B. Independent Contractors Complete this table for your five highest compensated independent contractors that received more than \$100,000 of compensation from the organization. Report compensation for the calendar year ending with or within the organization's tax year.

(A) Name and business address	(B) Description of services	(C) Compensation
LANE PRESS	PRINTING AND MAILING	
P.O. BOX 130, BURLINGTON, VT 05402	JOURNALS	926,027.
IENGINEERING CORPORATION, 24805 PINEBROOK	SOLUTIONS FOR	
ROAD, STE 204, CHANTILLY, VA 20152	ELECTRONIC PRODUCTS	296,655.
LINDENBERGER & ASSOCIATES INC., 7007	COMMISIONS FOR	
WINDING WALK DR. STE 100, HOUSTON, TX	ADVERTISING SALES	283,670.
PBD WORLDWIDE FULLFILLMENT SERVICES, 3280		
SUMMIT RIDGE PKWY, STE 100, DULUTH, GA	WAREHOUSE STORAGE	229,645.
BRIDGELINE DIGITAL INC.	CONTENT MANAGEMENT	
P.O. BOX 206545, DALLAS, TX 75320	SOLUTIONS	214,246.
 Total number of independent contractors (including but not limited to those list \$100,000 of compensation from the organization 	ed above) who received more than	. (C ₂₀ +)

SEE PART VII, SECTION A CONTINUATION SHEETS

...Form 990 (2017)

REFRIGERATING AND A-C ENGINEERS, INC.

13-5675095

Form 990 Part VII Officers, Directors, Trustees, Key Employees, and Highest Compensated Employees (continued) (A) (B) (C) (D) (E) (F) Name and title Average **Position** Reportable Reportable Estimated hours (check all that apply) compensation compensation amount of per from from related other week the organizations compensation (W-2/1099-MISC) organization (list any from the (W-2/1099-MISC) organization hours for related and related organizations organizations below Ě (enii Ē 5.00 (27) PROF ESSAM ELDIN KHALIL, PHD 0 0 0. DIRECTOR 10.00 (28) MALCOM D KNIGHT, PE 0 0 0. DIRECTOR 6.00 (29) LAWRENCE C MARKEL 0 0 0. DIRECTOR 4.00 (30) TIM J MCGINN, PE 0. 0 0 DIRECTOR 15.00 (31) WILLIAM F. MCQUADE, PE, LEED AP 0 0 0. DIRECTOR 15.00 (32) DR THOMAS LAWRENCE 0 0 0. DIRECTOR 40.00 (33) STEPHEN W COMSTOCK 209,573. 0. 22,787. DIRECTOR OF PUBLICATIONS A 40.00 (34) CRAIG WRIGHT 160,735 0 19,053. DIRECTOR OF FINANCE & ADMI 40.00 (35) KIM MITCHELL 0 159,137 16,952. CHIEF DEVELOPMENT OFFICER 40.00 (36) VANITA GUPTA 156,568 0 19,572. DIRECTOR OF MARKETING 40.00 (37) JOYCE ABRAMS 147,915. 0 16,462. DIRECTOR OF MEMBER SERVICES 40.00 (38) MICHAEL VAUGHN X 124,426 0 16,127. MANAGER RESEARCH TECHNICAL 40.00 (39) STEPHANIE REINICHE 120,738 0 16,128. DIRECTOR OF TECHNOLOGY 40.00 (40) STEPHANIE SEARS 119,263 0. 14,039. IAQA EXECUTIVE DIRECTOR 40.00 (41) JIM SCARBOROUGH 116,696 0 10,598. SR. MANAGER STATE & LOCAL GOVERNMENT 1,315,051 151.718. Total to Part VII, Section A, line 1c

REFRIGERATING AND A-C ENGINEERS, INC.

		Check if Schedule O con	tains a response	or note to any III	(A) Total revenue	(B) Related or exempt function revenue	(C) Unrelated business revenue	(D) Revenue excluded from tax under sections 512 - 514
Contributions, Gifts, Grants and Other Similar Amounts	1 8	a Federated campaigns	<u>1a</u>	 	200	414	Page 1	:
동질		b Membership dues			(1)			
₹.	C	c Fundraising events				 ' '		_
[를	C		1d					
ξË	•	Government grants (contribution)						
원	f	f All other contributions, gifts, gra	1 1		·		•	
된	•	similar amounts not included abo	OV8 1f	2,160,094.				٠.
2 E	_	Noncesh contributions included in line					_	l
0 9	<u>b</u>	h Total, Add lines 1a-1f			2 160 094.	<u>}.</u> . € : 87, -	1.70	
ļ				Business Code	1) ·		
Program Service Revenue	2 8	a <u>MEMBERSHIP DUES</u>		541900	7,772,752.	7,772,752.		
	b	b <u>exposition income</u>		541900	6,085,682.	6,085,682.	_	
E 6	C	C MEETING AND SEMINAR		541900	3,728,027.	3,728,027.		
<u> </u>	C	d <u>PUBLICATION SALES</u>		541900	3,664,001,	3,664,001,		
<u>ğ</u> _	e	e SPECIAL PROJECTS		541900	62,905,	62,905.		
<u> </u>	f	f All other program service rev					· · · · · · · · · · · · · · · · · · ·	
		g Total. Add lines 2a-2f			21,313,367.			
	3	Investment income (including				İ		
		other similar amounts)			468,375.			468,375
	4	Income from investment of ta						
İ	5	Royalties		1	N			3
			(i) Real	(ii) Personal	*	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	体 姜	20 1 1 1
	6 a	a Gross rents		<u> </u>		A		
	ŧ	b Less: rental expenses						
	C	c Rental income or (loss)		<u> </u>		1		
	_	d Net rental income or (loss)						
	7 8	a Gross amount from sales of	(i) Securities	(ii) Other				
		assets other than inventory	732,984,					
	t	b Less: cost or other basis			.,,,,			1.
		and sales expenses			· 500			
	•	c Gain or (loss)						1
	•	d Net gain or (loss)		·· <u>·········</u>	342,774.	The Total		342,774
9	8 8	a Gross income from fundraisi				 **		
夏		including \$	of		46			
ě		contributions reported on lin	•		, , , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , ,		
Other Reven	_	Part IV, line 18		 	1	 , .		
8	k	b Less: direct expenses			· · · · ·		:	, ,
ļ	_	c Net income or (loss) from fur	-					}
ļ	9 8	a Gross income from gaming a		1	1.	· :		
l		Part IV, line 19		\ \ 			1	· ·
		b Less: direct expenses		'	' '	. st.	-''	
ļ		c Net income or (loss) from ga			835 1855 S	22. 4	1. ***	
1	10 8	a Gross sales of inventory, less		1				i
1		and allowancesb Less: cost of goods sold		·		Bis Tub	Sec. 34	E
		- · · · · · · · · · · · · · · · · · · ·		·	20 a		1967 m. Seme	
ŀ		c Net income or (loss) from sal		Buelses 0s-			· · · · · ·	
ŀ	44 -	Miscellaneous Reven	iud	Business Code	1			
	_	a ADVERTISING		541800	4,207,378,	707 422	4,207,378	
		b OTHER INCOME		541900	797,432,	797,432,	-	
		d All other revenue		 	 	 	 	
					5,004,810			
	12	Total revenue See instructions			29 289 420		4 207 378	811 149

Part IX | Statement of Functional Expenses Section 501(c)(3) and 501(c)(4) organizations must complete all columns. All other organizations must complete column (A). Check if Schedule O contains a response or note to any line in this Part IX (A) Total expenses (B) Program service (C) Management and general expenses (D) Fundraising Do not include amounts reported on lines 6b. 7b. 8b. 9b. and 10b of Part VIII. expenses expenses Grants and other assistance to domestic organizations and domestic governments. See Part IV, line 21 Grants and other assistance to domestic 58,317. individuals. See Part IV, line 22 58.317 Grants and other assistance to foreign organizations, foreign governments, and foreign 61,186. 61,186. individuals. See Part IV, lines 15 and 16 Benefits paid to or for members Compensation of current officers, directors, 1,189,025. trustees, and key employees 649.776. 469,237 70,012. Compensation not included above, to disqualified persons (as defined under section 4958(f)(1)) and persons described in section 4958(c)(3)(B) 8,541,355 3,370,763 502,930. Other salaries and wages 4,667,662. Pension plan accruals and contributions (include section 401(k) and 403(b) employer contributions) 857,532 478,040 331.551 47,941. Other employee benefits 2.017.800. 124.843 780.149 112.808. Payroll taxes 10 Fees for services (non-employees): Management 286,765. 100.344 186,421 Legai 85,505. 29,920. 55,585 Lobbying Professional fundraising services. See Part IV, line 17 56,421 Investment management fees 56,421 Other. (If line 11g amount exceeds 10% of line 25, 1,697,360 1.103.424 593,936 column (A) amount, list line 11g expenses on Sch O.) 12 Advertising and promotion 1,631,674 ,204,362 Office expenses _____ 377,200 50,112 13 Information technology 14 Royalties 15 639,328 43,983 595,345 16 Occupancy 2,228,835 949,148. 109.887. 169,800. 17 Payments of travel or entertainment expenses 18 for any federal, state, or local public officials 2.929.775. 2.739.377 160,100. 30,298 Conferences, conventions, and meetings 19 20 Payments to affiliates 21 556,931 31 556,900 22 Depreciation, depletion, and amortization 23 Insurance Other expenses, Itemize expenses not covered above. (List miscellaneous expenses in line 24e. If line 24e amount exceeds 10% of line 25, column (A) amount, list line 24e expenses on Schedule O.) 97,568 UNRELATED BUSINESS INCO 97.568 COST OF PUBLICATIONS 3,428,756. 3,236,611 172,800 19,345. 2,589,868 c RESEARCH PROJECTS 2.582.468. 7,400. 91,532 46,976. 906,636. 768,128. OTHER EXPENSES 281,182. 198,849 38<u>,40</u>0. 43,933. All other expenses 20. Total functional expenses. Add lines 1 through 24s 30,141,819. 108,211 8,999,366. 034,242. Joint costs. Complete this line only if the organization reported in column (B) joint costs from a combined educational campaign and fundraising solicitation.

Check here If following SOP 98-2 (ASC 958-720)

Form 990 (2017)
Part X | Balance Sheet

REFRIGERATING AND A-C ENGINEERS, INC.

		Check if Schedule O contains a response or note to any line in this Part X	.,,	
	. `		(A) Beginning of year	(B) End of year
	1	Cash - non-interest-bearing	1,000. 1	1,000.
	2	Savings and temporary cash investments		4,410,541.
	3	Pledges and grants receivable, net		
	4	Accounts receivable, net	912,021. 4	795,077.
	5	Loans and other receivables from current and former officers, directors,	10000000000000000000000000000000000000	
		trustees, key employees, and highest compensated employees. Complete	11.	•
		Part ii of Schedule L	. 5	
	6	Loans and other receivables from other disqualified persons (as defined under		l ' ' ' .
		section 4958(f)(1)), persons described in section 4958(c)(3)(B), and contributing	g	
		employers and sponsoring organizations of section 501(c)(9) voluntary	- <u>*</u>	·: `
ħ		employees' beneficiary organizations (see instr). Complete Part II of Sch L	. 6	
Assets	7	Notes and loans receivable, net		
⋖	8	Inventories for sale or use	. <u>557,864.</u> 8	529,766.
	9	Prepaid expenses and deferred charges	366,397. 9	417,138.
	10a	Land, buildings, and equipment: cost or other		
		basis. Complete Part VI of Schedule D 10a 14,922,583		
	b	Less: accumulated depreciation10b 9,332,117	5,656,447. 10c	5,590,466.
	11	Investments - publicly traded securities	19,422,120. 11	20,823,460.
	12	Investments - other securities. See Part IV, line 11		
	13	Investments - program-related. See Part IV, line 11	. 13	
	14	Intangible assets	. 14	
	15	Other assets. See Part IV, line 11		
	16	Total assets, Add lines 1 through 15 (must equal line 34)		32,567,448.
	17	Accounts payable and accrued expenses	4,682,901. 17	5,469,241.
	18	Grants payable		
	19	Deferred revenue	7,388,811. 19	7,422,684.
	20	Tax-exempt bond liabilities		
	21	Escrow or custodial account liability. Complete Part IV of Schedule D		
89	22	Loans and other payables to current and former officers, directors, trustees,		_
Ė		key employees, highest compensated employees, and disqualified persons.	1.	. '
Liabilities		Complete Part II of Schedule L		
	23	Secured mortgages and notes payable to unrelated third parties		
	24	Unsecured notes and loans payable to unrelated third parties	. 24	
	25	Other liabilities (including federal income tax, payables to related third		
		parties, and other liabilities not included on lines 17-24). Complete Part X of		
		Schedule D		<u>577,169.</u>
	26	Total liabilities, Add lines 17 through 25	12,807,041. 26	13,469,094.
	ļ	Organizations that follow SFAS 117 (ASC 958), check here ▶ 🗶 and	- 1 1 mag (* 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	*
8		complete lines 27 through 29, and lines 33 and 34.		
Ĕ	27	Unrestricted net assets	19,302,565. 27	19,098,354.
層	28	Temporarily restricted net assets	. 28	<u> </u>
2	29	Permanently restricted net assets	. 29	
2	1	Organizations that do not follow SFAS 117 (ASC 958), check here	ا بن بناید	
9		and complete lines 30 through 34.		. "
	30	Capital stock or trust principal, or current funds		ļ
\$	31	Paid-in or capital surplus, or land, building, or equipment fund		
Net Assets or Fund Balances	32	Retained earnings, endowment, accumulated income, or other funds		40.055.55
_	33	Total net assets or fund balances	19,302,565. 33	19,098,354.
	34	Total liabilities and net assets/fund balances	32,109,606. 34	32,567,448. Form 990 (2017)

	PRO (2017) REPRIGERATING AND A-C ENGINEERS, INC.	T3-20	73033		ge IZ
Pģ	rt XI Reconciliation of Net Assets	•	- <u>-</u>		
	Check if Schedule O contains a response or note to any line in this Part XI				
	• •				
1	Total revenue (must equal Part VIII, column (A), line 12)	. 1	29,28	9,4	20.
2	Total expenses (must equal Part IX, column (A), line 25)	2	30,14	1,8	19.
3	Revenue less expenses. Subtract line 2 from line 1	3			99.
4	Net assets or fund balances at beginning of year (must equal Part X, line 33, column (A))	_4	19,30		
5	Net unrealized gains (losses) on investments	5	64	8,1	.88.
6	Donated services and use of facilities	_6		_	
7	Investment expenses	7		•	
8	Prior period adjustments	8			
9	Other changes in net assets or fund balances (explain in Schedule O)	9			0.
10	Net assets or fund balances at end of year. Combine lines 3 through 9 (must equal Part X, line 33,				
	column (B))	10	19,09	8,3	54.
Pa	रे XII Financial Statements and Reporting				
	Check if Schedule O contains a response or note to any line in this Part XII				\Box
	<u> </u>			Yes	No
1	Accounting method used to prepare the Form 990: Cash X Accrual Other		.		'
	If the organization changed its method of accounting from a prior year or checked "Other," explain in Schedule			l .	•
2a	Were the organization's financial statements compiled or reviewed by an independent accountant?		2a		X
	If "Yes," check a box below to indicate whether the financial statements for the year were compiled or reviewed	l on a			
	separate basis, consolidated basis, or both:		'		
	Separate basis Consolidated basis Both consolidated and separate basis		1:	· ·	·
b	Were the organization's financial statements audited by an independent accountant?		<u>26</u>	X	<u> </u>
	If "Yes," check a box below to indicate whether the financial statements for the year were audited on a separat	e basis,			· •
	consolidated basis, or both:		1		•
	Separate basis X Consolidated basis Both consolidated and separate basis		.	١.	
C	If "Yes" to line 2a or 2b, does the organization have a committee that assumes responsibility for oversight of th	•	.		ľ
	review, or compilation of its financial statements and selection of an independent accountant?		2c	X	$oldsymbol{ol}}}}}}}}}}}}}}}}}}$
	If the organization changed either its oversight process or selection process during the tax year, explain in Sch				Ι.
3 a	As a result of a federal award, was the organization required to undergo an audit or audits as set forth in the Sil	•			
	Act and OMB Circular A-133?	••••••	За	$oxed{oxed}$	X
b	If "Yes," did the organization undergo the required audit or audits? If the organization did not undergo the requ	ired audit			
	or audits, explain why in Schedule O and describe any steps taken to undergo such audits		Зь		1

Form **990** (2017)

SCHEDULE A (Form 990 or 990-EZ)

Department of the Tressury Internal Revenue Service

Name of the organization

Public Charity Status and Public Support

Complete if the organization is a section 501(c)(3) organization or a section 4947(a)(1) nonexempt charitable trust.

➤ Attach to Form 990 or Form 990-EZ.

Go to www.irs.gov/Form990 for instructions and the latest information.

OMB No. 1545-0047

Inspection

AMERICAN SOCIETY OF HEATING, **Employer identification number** REFRIGERATING AND A-C ENGINEERS, 13-5675095 Reason for Public Charity Status (All organizations must complete this part.) See instructions. The organization is not a private foundation because it is: (For lines 1 through 12, check only one box.) 1 A church, convention of churches, or association of churches described in section 170(b)(1)(A)(i). 2 A school described in section 170(b)(1)(A)(ii), (Attach Schedule E (Form 990 or 990-EZ).) 3 A hospital or a cooperative hospital service organization described in section 170(b)(1)(A)(iii). A medical research organization operated in conjunction with a hospital described in section 170(b)(1)(A)(iii). Enter the hospital's name, city, and state: An organization operated for the benefit of a college or university owned or operated by a governmental unit described in section 170(b)(1)(A)(Iv). (Complete Part II.) A federal, state, or local government or governmental unit described in section 170(b)(1)(A)(v). An organization that normally receives a substantial part of its support from a governmental unit or from the general public described in section 170(b)(1)(A)(vi), (Complete Part II.) A community trust described in section 170(b)(1)(A)(vi). (Complete Part II.) An agricultural research organization described in section 170(b)(1)(A)(lx) operated in conjunction with a land-grant college or university or a non-land-grant college of agriculture (see instructions). Enter the name, city, and state of the college or university: 10 X An organization that normally receives: (1) more than 33 1/3% of its support from contributions, membership fees, and gross receipts from activities related to its exempt functions - subject to certain exceptions, and (2) no more than 33 1/3% of its support from cross investment income and unrelated business taxable income (less section 511 tax) from businesses acquired by the organization after June 30, 1975. See section 509(a)(2). (Complete Part III.) An organization organized and operated exclusively to test for public safety. See section 509(a)(4), An organization organized and operated exclusively for the benefit of, to perform the functions of, or to carry out the purposes of one or more publicly supported organizations described in section 509(a)(1) or section 509(a)(2). See section 509(a)(3), Check the box in lines 12a through 12d that describes the type of supporting organization and complete lines 12e, 12f, and 12g. Light Type I. A supporting organization operated, supervised, or controlled by its supported organization(s), typically by giving the supported organization(s) the power to regularly appoint or elect a majority of the directors or trustees of the supporting organization. You must complete Part IV. Sections A and B. Type II. A supporting organization supervised or controlled in connection with its supported organization(s), by having control or management of the supporting organization vested in the same persons that control or manage the supported organization(s). You must complete Part IV. Sections A and C. Type III functionally integrated. A supporting organization operated in connection with, and functionally integrated with, its supported organization(s) (see instructions). You must complete Part IV, Sections A, D, and E. Type III non-functionally Integrated. A supporting organization operated in connection with its supported organization(s) that is not functionally integrated. The organization generally must satisfy a distribution requirement and an attentiveness requirement (see instructions). You must complete Part IV, Sections A and D, and Part V. Check this box if the organization received a written determination from the IRS that it is a Type I, Type II, Type III functionally integrated, or Type III non-functionally integrated supporting organization. f Enter the number of supported organizations Provide the following information about the supported organization(s) (iv) is the organization listed in your governing document? (i) Name of supported (II) EIN (III) Type of organization (v) Amount of monetary (vi) Amount of other (described on lines 1-10 organization support (see Instructions) support (see instructions) above (see instructions)) Total

AMERICAN SOCIETY OF HEATING. Schedule A (Form 990 or 990-EZ) 2017 REFRIGERATING AND A-C ENGINEERS Part II | Support Schedule for Organizations Described in Sections 170(b)(1)(A)(iv) and 170(b)(1)(A)(vi) (Complete only if you checked the box on line 5, 7, or 8 of Part I or if the organization failed to qualify under Part III. If the organization fails to qualify under the tests listed below, blease complete Part III.) Section A. Public Support (e) 2017 Calendar year (or fiscal year beginning in) (a) 2013(b) 2014 (c) 2015 (d) 2016(f) Total 1 Gifts, grants, contributions, and membership fees received. (Do not include any "unusual grants.") 2 Tax revenues levied for the organization's benefit and either paid to or expended on its behalf 3 The value of services or facilities furnished by a governmental unit to the organization without charge 4 Total. Add lines 1 through 3 The portion of total contributions by each person (other than a governmental unit or publicly supported organization) included on line 1 that exceeds 2% of the amount shown on line 11, column (f) Public support. Subtract line 5 from line 4 Section B. Total Support (a) 2013 Calendar year (or fiscal year beginning in) (b) 2014 (c) 2015 (d) 2016 (e) 2017 (f) Total 7 Amounts from line 4 8 Gross income from interest, dividends, payments received on securities loans, rents, royalties, and income from similar sources ... Net income from unrelated business activities, whether or not the business is regularly carried on 10 Other income. Do not include gain or loss from the sale of capital assets (Explain in Part VI.) 1. 11 Total support. Add lines 7 through 10 Gross receipts from related activities, etc. (see instructions) First five years. If the Form 990 is for the organization's first, second, third, fourth, or fifth tax year as a section 501 (c)(3) organization, check this box and stop here Section C. Computation of Public Support Percentage 14 Public support percentage for 2017 (line 6, column (f) divided by line 11, column (f)) % 15 Public support percentage from 2016 Schedule A, Part II, line 14 16a 33 1/3% support test - 2017. If the organization did not check the box on line 13, and line 14 is 33 1/3% or more, check this box and b 33 1/3% support test - 2016. If the organization did not check a box on line 13 or 16a, and line 15 is 33 1/3% or more, check this box and stop here. The organization qualifies as a publicly supported organization 17a 10% -facts-and-circumstances test - 2017. If the organization did not check a box on line 13, 16a, or 16b, and line 14 is 10% or more,

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Schedule A (Form 990 or 990-EZ) 2017

Schedule A (Form 990 or 990-EZ) 2017 REFRIGERATING AND A-C ENGINEERS, INC. 13-5675095 Page 3 Part III | Support Schedule for Organizations Described in Section 509(a)(2)

(Complete only if you checked the box on line 10 of Part I or if the organization failed to qualify under Part II. If the organization fails to

	' \ Complete only if you checked			organization falled	to quality under P	art II. II the organi	ZALIUM IANS LU			
' ` qualify under the tests listed below, please complete Part II.) Section A. Public Support										
Cale	ndar year (or fiscal year beginning in) ►	(a) 2013	(ъ) 2014	(c) 2015	(d) 2016_	(e) 2017	(f) Total			
1	Gifts, grants, contributions, and membership fees received. (Do not									
	include any "unusual grants.")	9177539.	9438079.	9734009.	9821457.	9932846.	<u>48103930.</u>			
2	Gross receipts from admissions, merchandise sold or services performed, or facilities furnished in any activity that is related to the organization's tax-exempt purpose	11639695.	13044333.	13266597.	14103558.	14338047.	66392230.			
3	Gross receipts from activities that are not an unrelated trade or business under section 513				_					
4	Tax revenues levied for the organ- ization's benefit and either paid to or expended on its behalf									
5	The value of services or facilities furnished by a governmental unit to the organization without charge									
6	Total. Add lines 1 through 5	20817234.	22482412.	23000606.	23925015.	24270893.	114496160			
7	Amounts included on lines 1, 2, and 3 received from disqualified persons						0.			
İ	Amounts included on lines 2 and 3 received from other than disqualified persons that exceed the greater of \$5,000 or 1% of the						0.			
	emount on line 13 for the year						0.			
	Public support. (Subtract line 7: from line 6.)			10 July 19	· · · · ·		114496160			
	ction B. Total Support	<u> </u>	· · · · · · · · · · · · · · · · · · ·				114470100			
	ndar year (or fiscal year beginning in) 🕨		(b) 2014	(c) 2015	(d) 2016	(e) 2017	(f) Total			
	Amounts from line 6						114496160			
	and income from similar sources	570,262.	432,798.	430,911.	385,952.	468,375.	2288298.			
i	Unrelated business taxable income									
	(less section 511 taxes) from businesses acquired after June 30, 1975	4269981. 4840243.					21747111. 24035409.			
	Add lines 10a and 10b Net income from unrelated business activities not included in line 10b, whether or not the business is regularly carried on		4//1192.	4943419.	4002002.	4075755	24033409.			
	Other income. Do not include gain or loss from the sale of capital			_						
13	Total support. (Add lines 9, 10c, 11, and 12.)	25657477.	27253604.	27946025.	28727817.	28946646.	138531569			
14	First five years. If the Form 990 is for check this box and stop here	-			-		zation,			
Se	ction C. Computation of Pub	lic Support Pe	rcentage							
15	Public support percentage for 2017	(line 8, column (f) d	livided by line 13,	column (f))		15	82.65 %			
16	Public support percentage from 201					16	81.27 %			
	Section D. Computation of Investment Income Percentage									
	17 Investment income percentage for 2017 (line 10c, column (f) divided by line 13, column (f)									
18	investment income percentage from a 33 1/3% support tests - 2017. If the									
19										
	more than 33 1/3%, check this box a 33 1/3% support tests - 2016. If the	=								
	ine 18 is not more than 33 1/3%, ch	-								
20	Private foundation, If the organizati									
732	23 10-06-17				Sch	edule A (Form 99	0 or 990-EZ) 2017			

Schedule A (Form 990 or 990-EZ) 2017 REFRIGERATING AND A-C ENGINEERS. INC.

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Yes No

Part IV Supporting Organizations

(Complete only if you checked a box in line 12 on Part I. If you checked 12a of Part I, complete Sections A and B. If you checked 12b of Part I, complete Sections A and C. If you checked 12c of Part I, complete

Sections A, D, and E. If you checked 12d of Part I, complete Sections A and D, and complete Part V.)

Section A. All Supporting Organizations

1	Are all of the organization's supported organizations listed by name in the organization's governing
	documents? If "No," describe in Part VI how the supported organizations are designated. If designated by
	class or purpose, describe the designation. If historic and continuing relationship, explain.

- 2 Did the organization have any supported organization that does not have an IRS determination of status under section 509(a)(1) or (2)? If "Yes," explain in Part VI how the organization determined that the supported organization was described in section 509(a)(1) or (2).
- 3a Did the organization have a supported organization described in section 501(c)(4), (5), or (6)? If "Yes." answer (b) and (c) below.
- b Did the organization confirm that each supported organization qualified under section 501(c)(4), (5), or (6) and satisfied the public support tests under section 509(a)(2)? If "Yes," describe in Part VI when and how the organization made the determination.
- c Did the organization ensure that all support to such organizations was used exclusively for section 170(c)(2)(B) purposes? If "Yes," explain in Part VI what controls the organization put in place to ensure such use.
- 4a Was any supported organization not organized in the United States ("foreign supported organization")? If "Yes," and if you checked 12a or 12b in Part I, answer (b) and (c) below.
- b Did the organization have ultimate control and discretion in deciding whether to make grants to the foreign supported organization? If "Yes," describe in Part VI how the organization had such control and discretion despite being controlled or supervised by or in connection with its supported organizations.
- c Did the organization support any foreign supported organization that does not have an IRS determination under sections 501(c)(3) and 509(a)(1) or (2)? If "Yes," explain in Part VI what controls the organization used to ensure that all support to the foreign supported organization was used exclusively for section 170(c)(2)(B) DUITOOSAS.
- 5a Did the organization add, substitute, or remove any supported organizations during the tax year? If "Yes," answer (b) and (c) below (if applicable). Also, provide detail in Part VI, including (i) the names and EIN numbers of the supported organizations added, substituted, or removed; (ii) the reasons for each such action; (iii) the authority under the organization's organizing document authorizing such action; and (iv) how the action was accomplished (such as by amendment to the organizing document).
- b Type I or Type II only. Was any added or substituted supported organization part of a class already designated in the organization's organizing document?
- c Substitutions only. Was the substitution the result of an event beyond the organization's control?
- 6 Did the organization provide support (whether in the form of grants or the provision of services or facilities) to anyone other than (i) its supported organizations, (ii) individuals that are part of the charitable class benefited by one or more of its supported organizations, or (iii) other supporting organizations that also support or benefit one or more of the filing organization's supported organizations? If "Yes," provide detail in
- 7 Did the organization provide a grant, loan, compensation, or other similar payment to a substantial contributor (defined in section 4958(c)(3)(C)), a family member of a substantial contributor, or a 35% controlled entity with regard to a substantial contributor? If "Yes," complete Part I of Schedule L (Form 990 or 990-EZ).
- 8 Did the organization make a loan to a disqualified person (as defined in section 4958) not described in line 7? If "Yes," complete Part I of Schedule L (Form 990 or 990-EZ).
- 9a Was the organization controlled directly or indirectly at any time during the tax year by one or more disqualified persons as defined in section 4946 (other than foundation managers and organizations described in section 509(a)(1) or (2))? If "Yes," provide detail in Part VI.
- b Did one or more disqualified persons (as defined in line 9a) hold a controlling interest in any entity in which the supporting organization had an interest? If "Yes," provide detail in Part VI.
- c Did a disqualified person (as defined in line 9a) have an ownership interest in, or derive any personal benefit from, assets in which the supporting organization also had an interest? If "Yes," provide detail in Part VI.
- 10a Was the organization subject to the excess business holdings rules of section 4943 because of section 4943(f) (regarding certain Type II supporting organizations, and all Type III non-functionally integrated supporting organizations)? If "Yes," answer 10b below.
- b Did the organization have any excess business holdings in the tax year? (Use Schedule C, Form 4720, to determine whether the organization had excess business holdings.)

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	, ' ' Cupporting Organizations (continued)		Yes	No
11	Has the organization accepted a gift or contribution from any of the following persons?	7.	103	140
	A person who directly or indirectly controls, either alone or together with persons described in (b) and (c)	ļ , -		ĺ
_	below, the governing body of a supported organization?	11a		
ь	A family member of a person described in (a) above?	11b		
	A 35% controlled entity of a person described in (a) or (b) above? If "Yes" to a, b, or c, provide detail in Part VI.	11c		
	tion B. Type I Supporting Organizations	,		
			Yes	No
1	Did the directors, trustees, or membership of one or more supported organizations have the power to			
	regularly appoint or elect at least a majority of the organization's directors or trustees at all times during the		l ·	
	tax year? If "No," describe in Part VI how the supported organization(s) effectively operated, supervised, or	•	1	
	controlled the organization's activities. If the organization had more than one supported organization,	<u>.</u>	l	L
	describe how the powers to appoint and/or remove directors or trustees were allocated among the supported			
	organizations and what conditions or restrictions, if any, applied to such powers during the tax year.	1	`	Ī
2	Did the organization operate for the benefit of any supported organization other than the supported			- :
	organization(s) that operated, supervised, or controlled the supporting organization? if "Yes," explain in	1 .		
	Part VI how providing such benefit carried out the purposes of the supported organization(s) that operated,	ĺ		
	supervised, or controlled the supporting organization.	2		
Sec	tion C. Type II Supporting Organizations			
			Yes	No
1	Were a majority of the organization's directors or trustees during the tax year also a majority of the directors	1	١.	
	or trustees of each of the organization's supported organization(s)? If "No," describe in Part VI how control			
	or management of the supporting organization was vested in the same persons that controlled or managed	•		
	the supported organization(s).	1		
Sec	tion D. All Type III Supporting Organizations			
			Yes	No
1	Did the organization provide to each of its supported organizations, by the last day of the fifth month of the	···	1	'
	organization's tax year, (i) a written notice describing the type and amount of support provided during the prior tax		1	1
	year, (ii) a copy of the Form 990 that was most recently filed as of the date of notification, and (iii) copies of the	}		
	organization's governing documents in effect on the date of notification, to the extent not previously provided?	1_1_		
2	Were any of the organization's officers, directors, or trustees either (i) appointed or elected by the supported	:	l	
	organization(s) or (ii) serving on the governing body of a supported organization? If "No," explain in Part VI how	٠,	1	
	the organization maintained a close and continuous working relationship with the supported organization(s).	2		<u> </u>
3	By reason of the relationship described in (2), did the organization's supported organizations have a	·,.	1	:
	significant volce in the organization's investment policies and in directing the use of the organization's			١ ٠
	income or assets at all times during the tax year? If "Yes," describe in Part VI the role the organization's		:	ł
	supported organizations played in this regard.	3_	<u> </u>	
Sec	tion E. Type III Functionally Integrated Supporting Organizations			
1	Check the box next to the method that the organization used to satisfy the Integral Part Test during the yeatsee instruction	s).		
8	The organization satisfied the Activities Test. Complete line 2 below.			
b	The organization is the parent of each of its supported organizations. Complete line 3 below.			
C	The organization supported a governmental entity. Describe in Part VI how you supported a government entity (see in	struction		т—
2	Activities Test. Answer (a) and (b) below.	۔۔۔۔۔	Yes	No
2	Did substantially all of the organization's activities during the tax year directly further the exempt purposes of			
	the supported organization(s) to which the organization was responsive? If "Yes," then in Part VI Identify	- 4	ľ	ľ
	those supported organizations and explain how these activities directly furthered their exempt purposes,	'' ''		
	how the organization was responsive to those supported organizations, and how the organization determined	1 .		
	that these activities constituted substantially all of its activities.			├
b				'•
	of the organization's supported organization(s) would have been engaged in? If "Yes," explain in Part VI the	.	1	
	reasons for the organization's position that its supported organization(s) would have engaged in these			-
	activities but for the organization's involvement.	2b	 	
3	Parent of Supported Organizations. Answer (a) and (b) below.		1	
8	Did the organization have the power to regularly appoint or elect a majority of the officers, directors, or	} -	1	
	trustees of each of the supported organizations? Provide details in Part VI.	3a		₩
b	Did the organization exercise a substantial degree of direction over the policies, programs, and activities of each	3		
	of its supported organizations? If "Yes," describe in Part VI the role played by the organization in this regard.	3b	1	Ц

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Part V Type III Non-Functionally Integrated 509(a)(3) Supporting			. J J J J J J J J J J J J J J J J J J J
1 Check here if the organization satisfied the Integral Part Test as a qualifyin			Part VI.) See instructions.
• • other Type III non-functionally integrated supporting organizations must co	omplete	Sections A through E.	
Section A - Adjusted Net Income		(A) Prior Year	(B) Current Year (optional)
1 Net short-term capital gain	1		
2 Recoveries of prior-year distributions	2		
3 Other gross income (see instructions)	3		
4 Add lines 1 through 3	4		
5 Depreciation and depletion	5		
6 Portion of operating expenses paid or incurred for production or			
collection of gross income or for management, conservation, or			
maintenance of property held for production of income (see instructions)	6		
7 Other expenses (see instructions)	7		
8 Adjusted Net Income (subtract lines 5, 6, and 7 from line 4)	8		
Section β - Minimum Asset Amount		(A) Prior Year	(B) Current Year (optional)
1 Aggregate fair market value of all non-exempt-use assets (see		The same of the same	# 1 1 i
instructions for short tax year or assets held for part of year):	.		•
a Average monthly value of securities	1a	1	
b Average monthly cash balances	1b		
c Fair market value of other non-exempt-use assets	1c		
d Total (add lines 1a, 1b, and 1c)	1d		
e Discount claimed for blockage or other		· · · · · · · · · · · · · · · · · · ·	
factors (explain in detail in Part VI):	Į.	32	1: '
2 Acquisition indebtedness applicable to non-exempt-use assets	2	<u> </u>	
3 Subtract line 2 from line 1d	3		
4 Cash deemed held for exempt use. Enter 1-1/2% of line 3 (for greater amount, see instructions)	4		
5 Net value of non-exempt-use assets (subtract line 4 from line 3)	5		†
6 Multiply line 5 by .035	6	-	
7 Recoveries of prior-year distributions	7		1
8 Minimum Asset Amount (add line 7 to line 6)	8		
Section C - Distributable Amount			Current Year
1 Adjusted net income for prior year (from Section A, line 8, Column A)	1	## 1 m	†
2 Enter 85% of line 1	2		
3 Minimum asset amount for prior year (from Section B, line 8, Column A)	3	. · ·	
4 Enter greater of line 2 or line 3	4		
5 Income tax imposed in prior year	5	M. 12 19	
6 Distributable Amount. Subtract line 5 from line 4, unless subject to		14	
emergency temporary reduction (see instructions)	6	· · · · · · · · · · · · · · · · · · ·	
7 Check here if the current year is the organization's first as a non-functional	lly integr		anization (see

Schedule A (Form 990 or 990-EZ) 2017

instructions).

Sche Par	tule A (Form 990 or 990-EZ) 2017 REFRIGERATING t.V Type III Non-Functionally Integrated 509	<u>AN</u> (a)(3	ND A-C	ENGII	<u>NEERS</u> Janizati	, IN	C. 1	<u>3-567</u>	5095	Page 7
Secti	on D - Distributions	<u> </u>	у серы			<u> </u>		Cu	rrent Yea	,
	Amounts paid to supported organizations to accomplish exe	mpt	purposes				~			
	Amounts paid to perform activity that directly furthers exemp			supported			-			
	organizations, in excess of income from activity	•								
3	Administrative expenses paid to accomplish exempt purpose	 98 of	supported	d organizatio	ons					
4	Amounts paid to acquire exempt-use assets			•						
	Qualified set-aside amounts (prior IRS approval required)							-		
	Other distributions (describe in Part VI). See instructions.						-			
7	Total annual distributions. Add lines 1 through 6.									
8	Distributions to attentive supported organizations to which the	ne on	ganization	is responsi	ve	-				
	(provide details in Part VI). See instructions.									
9	Distributable amount for 2017 from Section C, line 6									
10	Line 8 amount divided by line 9 amount									
Secti	on E - Distribution Allocations (see instructions)	E	(i) xcess Dis	tributions	Une	(ii) derdistri Pre-20			(iii) stributable unt for 20	_
1	Distributable amount for 2017 from Section C, line 6		-		1 ·					
2	Underdistributions, if any, for years prior to 2017 (reason-			٠٠٠.					~ ·	•
	able cause required- explain in Part VI). See instructions.									
3	Excess distributions carryover, if any, to 2017		47.	135						
8	THE RESERVE THE PROPERTY OF TH	3	36.	9	13	1	*** ***			•
b	From 2013		ا اللي	11.	14.7	26				•
	From 2014	·	\$35	-5 3 -0,	18	(A)				
	From 2015			प्रचित्र	1.5	·				
	From 2016		'_	Û.,	1-1-	`~	٠.,	•		
	Total of lines 3a through e		-		÷					
	Applied to underdistributions of prior years		•		1		_		·	
	Applied to 2017 distributable amount		٠.,	, 25.	٠					
i	Carryover from 2012 not applied (see instructions)			7,	7					
i	Remainder, Subtract lines 3g, 3h, and 3i from 3f.				-	-		•		
4				1,	200		· ·			
•	line 7:	•	•	, 11.	1.					
	Applied to underdistributions of prior years				7					
	Applied to 2017 distributable amount	<u>, </u>			4	1,5	•		<u> </u>	
	Remainder. Subtract lines 4a and 4b from 4.				1	•				
5	Remaining underdistributions for years prior to 2017, if		• •	. •	7			·		
_	any. Subtract lines 3g and 4a from line 2. For result greater	ŀ			}					-
	than zero, explain in Part VI, See instructions.	ļ.	•	• •						
6	Remaining underdistributions for 2017. Subtract lines 3h		•	• • • •	7					
•	and 4b from line 1. For result greater than zero, explain in	r	•		1.					
	Part VI. See instructions.	ľ		₹ · .			٠.			
7	Excess distributions carryover to 2018. Add lines 3j and 4c.					9.79y			•	
8	Breakdown of line 7:	<u> </u>		L.	12	Æ:	•			
	Excess from 2013	1			•	- 1			 	
	Excess from 2014	5	***	- Table	11 4					
	Excess from 2015	·		- N		• ;,				٠.
	Excess from 2016	+	3	. 783 A'	I S	. ; ; .	•			
	Excess from 2017	Ė٣		• • • •	 ;					

Schedule A (Form 990 or 990-EZ) 2017

AMERICAN SOCIETY OF HEATING, 13-567<u>5095</u> Page 8 Schedule A (Form 990 or 990-EZ) 2017 REFRIGERATING AND A-C ENGINEERS, Supplemental Information. Provide the explanations required by Part II, line 10; Part II, line 17a or 17b; Part III, line 12; Part IV, Section A, lines 1, 2, 3b, 3c, 4b, 4c, 5a, 6, 9a, 9b, 9c, 11a, 11b, and 11c; Part IV, Section B, lines 1 and 2; Part IV, Section C, line 1; Part IV, Section D, lines 2 and 3; Part IV, Section E, lines 1c, 2a, 2b, 3a, and 3b; Part V, line 1; Part V, Section B, line 1e; Part V, Section D, lines 5, 6, and 8; and Part V, Section E, lines 2, 5, and 6. Also complete this part for any additional information. (See instructions.)

SCHEDULE C (Form 990 or 990-EZ)

Department of the Tressury Internal Revenue Service

Political Campaign and Lobbying Activities

For Organizations Exempt From Income Tax Under section 501(c) and section 527

Complete if the organization is described below. Attach to Form 990 or Form 990-EZ.

Go to www.irs.gov/Form990 for instructions and the latest information.

2017

Open to Public Inspection

If the organization answered "Yes," on Form 990, Part IV, line 3, or Form 990-EZ, Part V, line 46 (Political Campaign Activities), then

- Section 501(c)(3) organizations: Complete Parts I-A and B. Do not complete Part I-C.
- Section 501(c) (other than section 501(c)(3)) organizations: Complete Parts I-A and C below. Do not complete Part I-B.
- Section 527 organizations: Complete Part I-A only.

If the organization answered "Yes," on Form 990, Part IV, line 4, or Form 990-EZ, Part VI, line 47 (Lobbying Activities), then

- Section 501(c)(3) organizations that have filed Form 5768 (election under section 501(h)): Complete Part II-A. Do not complete Part II-B.
- Section 501(c)(3) organizations that have NOT filed Form 5768 (election under section 501(h)): Complete Part II-B. Do not complete Part II-A.

If the organization answered "Yes," on Form 990, Part IV, line 5 (Proxy Tax) (see separate instructions) or Form 990-EZ, Part V, line 35c (Proxy Tax) (see separate instructions), then

•	Section 501(c)(4), (5), or (6) organiza	itions: Complete Part III.			
		N SOCIETY OF HEA	TING,	Empl	oyer identification number
	REFRIGE	RATING AND A-C E	ENGINEERS, 1	INC.	13-5675095
Pέ	int I-A Complete if the or	<u>RATING AND A-C E</u> ganization is exempt und	der section 501(c) or is a section 527 o	rganization.
2	Provide a description of the organic Political campaign activity expendic Volunteer hours for political campa	tures		▶ \$	
Ps	art I-B Complete if the or	panization is exempt un	der section 501(c	e)(3).	
	Enter the amount of any excise tax				
	Enter the amount of any excise tax				
	If the organization incurred a section				
4ε	Was a correction made?				Yes No
Ł	If "Yes," describe in Part IV.				
Pŧ	art I-C Complete if the on		<u>`</u>	<u> </u>	
1					
2	Enter the amount of the filing organ		_		
_	exempt function activities				
3	Total exempt function expenditure				
	line 17b Did the filing organization file Form	4400 BOL for this year?	•••••••••••		Yes No
5	Enter the names, addresses and e				—
•	made payments. For each organization contributions received that were p	ation listed, enter the amount pa	id from the filing organ	nization's funds. Also enter th	ne amount of political
	political action committee (PAC). If	additional space is needed, pro	vide information in Pa	rt IV.	
	(a) Name	(b) Address	(c) EIN	(d) Amount paid from filing organization's funds. If none, enter -0	(e) Amount of political contributions received and promptly and directly delivered to a separate political organization. If none, enter -0
		-			

For Paperwork Reduction Act Notice, see the Instructions for Form 990 or 990-EZ.

Schedule C (Form 990 or 990-EZ) 2017

LHA

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		SOCIETY OF HE		TWO 12 E	 C7E00E Base 0
Schedule C (Form 990 or 990-EZ) 2017 Part II-A Complete if the org	<u>REFRIGERA'</u> Janization is Al	<u> PING AND A-C</u>	ENGINEERS,	INC. 13-5	ection under
section 501(h)).		tompt under socio	ii oo i(c)(c) aiia iii		
	tion belongs to an	affiliated group (and list in	Part IV each affiliated	group member's nam	e address FIN.
expenses, and sha	=			group monipor o nem	o, 200,000, 2,
	•	and "limited control" pre	ovisions apply.		
				(a) Filing	(b) Affiliated group
	ts on Lobbying Ex ditures" means an	penditures nounts paid or incurred.)	organization's totals	totals
1a Total lobbying expenditures to infl	uence public opinio	n (grass roots lobbying)	·	35,700.	- -
b Total lobbying expenditures to infl				337,333	
c Total lobbying expenditures (add I	-	•		35,700.	
d Other exempt purpose expenditur				25,636,373.	
Total exempt purpose expenditure				25,672,073.	
/ Lobbying nontaxable amount. Ent				1,000,000.	
If the amount on line 1e, column (a)		lobbying nontaxable am			
Not over \$500,000		of the amount on line 1e		1	
Over \$500,000 but not over \$1,00	0,000 \$100	,000 plus 15% of the ex	cess over \$500,000.	,	
Over \$1,000,000 but not over \$1,5		,000 plus 10% of the exc		,	l .
Over \$1,500,000 but not over \$17		,000 plus 5% of the exce	ess over \$1,500,000.		92
Over \$17,000,000	\$1,0	00,000.			
			· 	*	
g Grassroots nontaxable amount (ei	nter 25% of line 1f)			250,000.	
h Subtract line 1g from line 1a. If zer	ro or less, enter -0-			0.	-
i Subtract line 1f from line 1c. If zero	o or less, enter -0-		***************************************	0.	
j If there is an amount other than ze	ero on either line 1h	or line 1i, did the organiz	ation file Form 4720	_	
reporting section 4911 tax for this	year?		<u></u>		Yes No
		Averaging Period Under			_
(Some organizations t		n 501(h) election do not parate instructions for li		of the five columns b	elow.
					
	Lobbying Ex	penditures During 4-Ye	ar Averaging Period		, , , , , , , , , , , , , , , , , , ,
Calendar year	(a) 2014	(ь) 2015	(c) 2016	(d) 2017	(e) Total
(or fiscal year beginning in)	(4) 2514	(5) 25.15	(0) 2010	(4) 2017	(6) 10121
		-	-		
2a Lobbying nontaxable amount	1.000.00	0. 1,000,000.	1,000,000	1.000 000	4 000 000
b Lobbying ceiling amount	2,000,00		1	2,000,000	*,000,000
(150% of line 2a, column(e))	· ·	`··		· ·	6,000,000.
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					0,000,000.
c Total lobbying expenditures	4,70	8,600.	49,800.	35,700.	98,800.
d Grassroots nontaxable amount	250,00	0. 250,000.	250,000.	250,000.	1,000,000.
e Grassroots ceiling amount	, 3				
(150% of line 2d, column (e))		3:	\$10 m		1,500,000.
f Grassroots lobbying expenditures		8,600.	49,800.	35,700.	94,100.

Schedule C (Form 990 or 990-EZ) 2017 REFRIGERATING AND A-C ENGINEERS, INC. 13-5675095 Page 3

[Part II-B.] Complete if the organization is exempt under section 501(c)(3) and has NOT filed Form 5768

(election under section 501(h)).

of the id	, , , , , , , , , , , , , , , , , , , ,		(a)		(b)	
	obbying activity.	Yes	No	Am	ount	
1 D	Ouring the year, dld the filing organization attempt to influence foreign, national, state or			ļ. —		
la	ocal legislation, including any attempt to influence public opinion on a legislative matter		•	·		
0	r referendum, through the use of:	ŀ <u>.</u> 1	•			
a V	olunteers?		•	[_		
b P	aid staff or management (include compensation in expenses reported on lines 1c through 1i)?			7 .		
	fedia advertisements?					
	failings to members, legislators, or the public?					
	bublications, or published or broadcast statements?					
	irants to other organizations for lobbying purposes?					
	Pirect contact with legislators, their staffs, government officials, or a legislative body?			<u> </u>		
	tallies, demonstrations, seminars, conventions, speeches, lectures, or any similar means?			 	-	
	Other activities?			<u> </u>		
i T	otal. Add lines 1c through 1i	<u> </u>				
2 D	otal: Add lines to timodgriff The activities in line 1 cause the organization to be not described in section 501(c)(3)?	+		 		
	*Yes," enter the amount of any tax incurred under section 4912			 	-	
	* "Yes," enter the amount of any tax incurred by organization managers under section 4912	:				
	the filing organization incurred a section 4912 tax, did it file Form 4720 for this year?			+		
	III-A Complete if the organization is exempt under section 501(c)(4), section	n 501/oV	(5) 07.5	oction.		
. ej t j	$\frac{10-4}{5}$ Complete it the organization is exempt under section 50 (C)(4), section 50)	(O), UI a	a ction		
			 -	Yes	No	
				100	1	
1 W	Vere substantially all (90% or more) dues received nondeductible by members?			100		
	Vere substantially all (90% or more) dues received nondeductible by members?					
2 D 3 D	Vere substantially all (90% or more) dues received nondeductible by members? Did the organization make only in-house lobbying expenditures of \$2,000 or less? Did the organization agree to carry over lobbying and political campaign activity expenditures from the lill-B. Complete if the organization is exempt under section 501(c)(4), section 501(c)(6) and if either (a) BOTH Part III-A, lines 1 and 2, are answered	ne prior year on 501(c)	2 ? 3 (5), or s	ection		
2 D 3 D Part I	Did the organization make only in-house lobbying expenditures of \$2,000 or less? Did the organization agree to carry over lobbying and political campaign activity expenditures from the lill-B Complete if the organization is exempt under section 501(c)(4), section 501(c)(6) and if either (a) BOTH Part III-A, lines 1 and 2, are answered answered "Yes."	ne prior year on 501(c) "No," OF	2 (5), or s R (b) Pa	ection		
2 D 3 D Part I	Did the organization make only in-house lobbying expenditures of \$2,000 or less? Did the organization agree to carry over lobbying and political campaign activity expenditures from the lill-B Complete if the organization is exempt under section 501(c)(4), section 501(c)(6) and if either (a) BOTH Part III-A, lines 1 and 2, are answered answered "Yes." Dues, assessments and similar amounts from members	ne prior year on 501(c)("No," OF	2 (5), or s R (b) Pa	ection		
2 D 3 D Part I	Did the organization make only in-house lobbying expenditures of \$2,000 or less? Did the organization agree to carry over lobbying and political campaign activity expenditures from the lile organization is exempt under section 501(c)(4), section 501(c)(6) and if either (a) BOTH Part III-A, lines 1 and 2, are answered answered "Yes." Dues, assessments and similar amounts from members section 162(e) nondeductible lobbying and political expenditures (do not include amounts of political expenditures).	ne prior year on 501(c)("No," OF	2 (5), or s R (b) Pa	ection		
2 D 3 D Part I	Did the organization make only in-house lobbying expenditures of \$2,000 or less? Did the organization agree to carry over lobbying and political campaign activity expenditures from the lile of the organization is exempt under section 501(c)(4), section 501(c)(6) and if either (a) BOTH Part III-A, lines 1 and 2, are answered answered "Yes." Dues, assessments and similar amounts from members section 162(e) nondeductible lobbying and political expenditures (do not include amounts of political expenses for which the section 527(f) tax was paid).	ne prior year on 501(c)("No," OF	2 (5), or s R (b) Pa	ection rt III-A, li		
2 D 3 D Part I 1 D 2 S e. a C	Did the organization make only in-house lobbying expenditures of \$2,000 or less? Did the organization agree to carry over lobbying and political campaign activity expenditures from the lill-B Complete if the organization is exempt under section 501(c)(4), section 501(c)(6) and if either (a) BOTH Part III-A, lines 1 and 2, are answered answered "Yes." Dues, assessments and similar amounts from members Section 162(e) nondeductible lobbying and political expenditures (do not include amounts of politic expenses for which the section 527(f) tax was paid).	ne prior year on 501(c)("No," OF	2 (5), or s (b) Ps	ection rt III-A, li		
2 D 3 D Part I 1 D 2 S 6 6 C	Did the organization make only in-house lobbying expenditures of \$2,000 or less? Did the organization agree to carry over lobbying and political campaign activity expenditures from the lill-B Complete if the organization is exempt under section 501(c)(4), section 501(c)(6) and if either (a) BOTH Part III-A, lines 1 and 2, are answered answered "Yes." Dues, assessments and similar amounts from members section 162(e) nondeductible lobbying and political expenditures (do not include amounts of political expenses for which the section 527(f) tax was paid). Current year	ne prior year on 501(c)("No," OF	2 (5), or s (b) Pa	ection rt III-A, li		
2 D 3 D Part I 1 D 2 S 6 6 C 7	Did the organization make only in-house lobbying expenditures of \$2,000 or less? Did the organization agree to carry over lobbying and political campaign activity expenditures from the lill-B Complete if the organization is exempt under section 501(c)(4), section 501(c)(6) and if either (a) BOTH Part III-A, lines 1 and 2, are answered answered "Yes." Dues, assessments and similar amounts from members section 162(e) nondeductible lobbying and political expenditures (do not include amounts of politic expenses for which the section 527(f) tax was paid). Current year Carryover from last year	ne prior year on 501(c)("No," OF	2 (5), or s (b) Pa 1 2a 2b 2c	ection rt III-A, li		
2 D 3 D Part I 1 D 2 S 6 6 C 6 T 3 A	Did the organization make only in-house lobbying expenditures of \$2,000 or less? Did the organization agree to carry over lobbying and political campaign activity expenditures from the III-B Complete if the organization is exempt under section 501(c)(4), section 501(c)(6) and if either (a) BOTH Part III-A, lines 1 and 2, are answered answered "Yes." Dues, assessments and similar amounts from members Section 162(e) nondeductible lobbying and political expenditures (do not include amounts of political expenses for which the section 527(f) tax was paid). Current year Carryover from last year Total Organization make only in-house lobbying and political expenditures (do not include amounts of political expenses for which the section 527(f) tax was paid).	ne prior year on 501(c)("No," OF	2 (5), or s (b) Pa 1 2a 2b 2c	ection rt III-A, li		
2 D 3 D Part I 1 D 2 S 6 C 6 T 3 A 4 If	Did the organization make only in-house lobbying expenditures of \$2,000 or less? Did the organization agree to carry over lobbying and political campaign activity expenditures from the lill-B Complete if the organization is exempt under section 501(c)(4), section 501(c)(6) and if either (a) BOTH Part III-A, lines 1 and 2, are answered answered "Yes." Dues, assessments and similar amounts from members Section 162(e) nondeductible lobbying and political expenditures (do not include amounts of political expenses for which the section 527(f) tax was paid). Current year Carryover from last year Otal Organization agree to carry over lobbying and political expenditures (do not include amounts of political expenses for which the section 527(f) tax was paid). Current year Otal Organization agree to carry over lobbying and political expenditures (do not include amounts of political expenses for which the section 527(f) tax was paid).	ne prior year on 501(c)("No," OF	2 (5), or s (b) Pa 1 2a 2b 2c	ection rt III-A, li		
2 D 3 D Part I 1 D 2 S a C b C c T 3 A 4 If	Did the organization make only in-house lobbying expenditures of \$2,000 or less? Did the organization agree to carry over lobbying and political campaign activity expenditures from the lill-B Complete if the organization is exempt under section 501(c)(4), section 501(c)(6) and if either (a) BOTH Part III-A, lines 1 and 2, are answered answered "Yes." Dues, assessments and similar amounts from members Desction 162(e) nondeductible lobbying and political expenditures (do not include amounts of political expenses for which the section 527(f) tax was paid). Durrent year Carryover from last year Total Degregate amount reported in section 6033(e)(1)(A) notices of nondeductible section 162(e) dues in notices were sent and the amount on line 2c exceeds the amount on line 3, what portion of the exceeds the organization agree to carryover to the reasonable estimate of nondeductible lobbying and political expenditures of no	ne prior year on 501(c)("No," OF	2 (5), or s (b) Pa 1 2a 2b 2c	ection rt III-A, li		
Part I 1 D 2 S e. a C b C c T 3 A 4 If d e.	Did the organization make only in-house lobbying expenditures of \$2,000 or less? Did the organization agree to carry over lobbying and political campaign activity expenditures from the lill-B Complete if the organization is exempt under section 501(c)(4), section 501(c)(6) and if either (a) BOTH Part III-A, lines 1 and 2, are answered answered "Yes." Dues, assessments and similar amounts from members Section 162(e) nondeductible lobbying and political expenditures (do not include amounts of political expenses for which the section 527(f) tax was paid). Current year Carryover from last year Otal Organization agree to carry over lobbying and political expenditures (do not include amounts of political expenses for which the section 527(f) tax was paid). Current year Otal Organization agree to carry over lobbying and political expenditures (do not include amounts of political expenses for which the section 527(f) tax was paid).	ne prior year on 501(c)("No," OF	2 3 (5), or s (b) Ps 1 2a 2b 2c 3	ection rt III-A, li		

SCHEDULE D

(Form 990)

ent of the Treesury Internal Revenue Service

Supplemental Financial Statements

Complete if the organization answered "Yes" on Form 990.

Part IV, line 6, 7, 8, 9, 10, 11a, 11b, 11c, 11d, 11e, 11f, 12a, or 12b.

Attach to Form 990.

Go to www.irs.gov/Form990 for instructions and the latest information.

OMB No. 1545-0047 Open to Public Inspection

Name of the organization

AMERICAN SOCIETY OF HEATING,

Employer identification number

REFRIGERATING AND A-C ENGINEERS, 13-5675095 Part I Organizations Maintaining Donor Advised Funds or Other Similar Funds or Accounts. Complete if the organization answered "Yes" on Form 990, Part IV, line 6. (a) Donor advised funds (b) Funds and other accounts Total number at end of year Aggregate value of contributions to (during year) Aggregate value of grants from (during year) Aggregate value at end of year Did the organization inform all donors and donor advisors in writing that the assets held in donor advised funds are the organization's property, subject to the organization's exclusive legal control? Did the organization inform all grantees, donors, and donor advisors in writing that grant funds can be used only for charitable purposes and not for the benefit of the donor or donor advisor, or for any other purpose conferring impermissible private benefit? Part II Conservation Easements. Complete if the organization answered "Yes" on Form 990, Part IV, line 7. Purpose(s) of conservation easements held by the organization (check all that apply). Preservation of land for public use (e.g., recreation or education) Preservation of a historically important land area Protection of natural habitat Preservation of a certified historic structure Preservation of open space Complete lines 2a through 2d if the organization held a qualified conservation contribution in the form of a conservation easement on the last Held at the End of the Tax Year day of the tax year. a Total number of conservation easements 2a b Total acreage restricted by conservation easements Number of conservation easements on a certified historic structure included in (a) d Number of conservation easements included in (c) acquired after 7/25/06, and not on a historic structure listed in the National Register Number of conservation easements modified, transferred, released, extinguished, or terminated by the organization during the tax Number of states where property subject to conservation easement is located Does the organization have a written policy regarding the periodic monitoring, inspection, handling of violations, and enforcement of the conservation easements it holds? Staff and volunteer hours devoted to monitoring, inspecting, handling of violations, and enforcing conservation easements during the year Amount of expenses incurred in monitoring, inspecting, handling of violations, and enforcing conservation easements during the year Does each conservation easement reported on line 2(d) above satisfy the requirements of section 170(h)(4)(B)(i) and section 170(h)(4)(B)(ii)? In Part XIII, describe how the organization reports conservation easements in its revenue and expense statement, and balance sheet, and include, if applicable, the text of the footnote to the organization's financial statements that describes the organization's accounting for Organizations Maintaining Collections of Art, Historical Treasures, or Other Similar Assets. Part III Complete if the organization answered "Yes" on Form 990, Part IV, line 8. 1a If the organization elected, as permitted under SFAS 116 (ASC 958), not to report in its revenue statement and balance sheet works of art, historical treasures, or other similar assets held for public exhibition, education, or research in furtherance of public service, provide, in Part XIII. the text of the footnote to its financial statements that describes these items. b If the organization elected, as permitted under SFAS 116 (ASC 958), to report in its revenue statement and balance sheet works of art, historical treasures, or other similar assets held for public exhibition, education, or research in furtherance of public service, provide the following amounts relating to these items: (i) Revenue included on Form 990, Part VIII, line 1 (ii) Assets included in Form 990, Part X ______ > \$ 2 If the organization received or held works of art, historical treasures, or other similar assets for financial gain, provide the following amounts required to be reported under SFAS 116 (ASC 958) relating to these items:

LHA For Paperwork Reduction Act Notice, see the Instructions for Form 990.

732051 10-09-17

a Revenue included on Form 990, Part VIII, line 1

Schedule D (Form 990) 2017

b Assets included in Form 990, Part X

		RATING AND							Page 2
<u> </u>	ti, organizations maintaining c								
3	Using the organization's acquisition, accessi	on, and other record	s, check any of the	following that	are a s	ignificant	use of its	collection	items
	(check all that apply):	_	Г].						
a	Public exhibition	d		hange progra	ms				
b	Scholarly research	•	Other						
C	Preservation for future generations				_				
4	Provide a description of the organization's co						ose in Par	t XIII.	
5	During the year, did the organization solicit o						_	٦	
	to be sold to raise funds rather than to be material to be material to be to be the sold to be the sold to be the sold to be the sold to be the sold to be sold to be the sold to be sold to raise funds rather than to be materials.	aintained as part of the	ne organization's co	DIJECTION?				Yes	No.
Fai	t:IV Escrow and Custodial Arrangement on Form 990, Par		ite ii the organizatio	n answered "	Yes" on	ı Form 99	u, Part IV,	iine 9, or	
						الم مال مالم			
18	Is the organization an agent, trustee, custodi		•				_	٦٧	
	on Form 990, Part X? If "Yes," explain the arrangement in Part XIII			••••••	•••••	••••••	∟	」 Yes	L∐ No
D	n res, explain the arrangement in Part Alli	and complete the loa	itowing table:					Amount	
_	Reginning helence				•	1		Amount	
	Beginning balance								
	Distributions during the year								
•	Ending balance								
2a	Did the organization include an amount on Fe							Yes	□ No
	If "Yes," explain the arrangement in Part XIII.								= "
Par									
		(a) Current year	(b) Prior year	(c) Two year		(d) Three	vears back	(e) Four v	years back
1a	Beginning of year balance	8,658,733,	7,627,393,	1	ſ		735.799		337,865,
ь	Contributions	843,868,	704.869	i	260.		789 176		563,678,
c	Net investment earnings, gains, and losses	485.038.	736,014		338.		L01.071		464,561,
d	Grants or scholarships	438,865,	330,448,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		351,265,		322.886.
	Other expenditures for facilities	100,000	330, 110				<u> </u>	 	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>
_	and programs		79.095	4 472	986.				302,275,
f	Administrative expenses								5,144,
a	End of year balance	9.548.774.	8,658,733.	7 627	393.	11 2	274,781,	10	735,799,
2	Provide the estimated percentage of the curr	rent year end balanc	e (line 1g, column (,
8	Board designated or quasi-endowment	-	%						
b	Permanent endowment > 92.00	%	_						
C	Temporarily restricted endowment ▶	8.00 %							
	The percentages on lines 2a, 2b, and 2c sho	uld equal 100%.							
3a	Are there endowment funds not in the posse	ssion of the organiza	ation that are held a	ınd administe	red for t	he organi	zation		
	by:							\	Yes No
	(i) unrelated organizations							3a(i)	X
	(II) related organizations		••••••••••	•••••				3a(ii)	X
þ	If "Yes" on line 3a(ii), are the related organiza			·······				. 3 b	X
4	Describe in Part XIII the intended uses of the		wment funds.						
Par	(VI Land, Buildings, and Equipm								
	Complete if the organization answere								
	Description of property	(a) Cost or o	\ \-*	t or other		ccumulat		(d) Book	value
		basis (investr		(other)		preciation	1		
1a	Land			0,000.	•	400 -			,000.
þ	Buildings		8,16	7,070.	4,	<u>199,6</u>	20.	<u>3,967</u>	<u>,450.</u>
	Leasehold improvements			0 =0=	4	244 -			. 645
	Equipment			9,525.		<u>341,6</u>			7,913.
	Other			<u> 5,988. </u>		790,8	85.		103.
Total	. Add lines 1a through 1e. (Column (d) must e	qual Form 990, Part	X, column (B), line	10c.)				<u>5,590</u>	<u>,466.</u>

	WITHTOWN DOCTE	1	261 THO!			
chedule D (Form 990) 2017	REFRIGERATING	AND A-C	ENGINEERS,	INC	13-5675095	Page 3
Part VII Investments -	Other Securities					

. <u></u>	 		
	1		
			
	 		
			
			
			· · · · · · · · · · · · · · · · · · ·
		 	
	·	· •	<u>, </u>
on Form 990, Part IV, lir	ne 11c. See Form 990.	Part X, line 13.	
(b) Book value			d-of-year market valu
	 		
	 		
	 		· · · · · · · · · · · · · · · · · · ·
	 		
	 		-
			
	200	A	
Description	ne i id. 599 Form 990,	Part A, line 15.	(b) Book value
 			
	·		
			
			
			
			
	 -		
9 <i>15.)</i> on Form 990, Part IV, li	ne 11e or 11f. See Fon	m 990, Part X, line 2	5.
	(b) Book value	·	
], .	
	577.169.	1.	
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		1.5	
		15	
9 25.)	577,169.	المراج المراج	y .
	(b) Book value on Form 990, Part IV, li Description	on Form 990, Part IV, line 11c. See Form 990, (b) Book value (c) Method of value on Form 990, Part IV, line 11d. See Form 990, Description on Form 990, Part IV, line 11d. See Form 990, on Form 990, Part IV, line 11e or 11f. See Form	on Form 990, Part IV, line 11c. See Form 990, Part X, line 13. (b) Book value (c) Method of valuation: Cost or en on Form 990, Part IV, line 11d. See Form 990, Part X, line 15. Description on Form 990, Part IV, line 11e or 11f. See Form 990, Part X, line 2 (b) Book value

Schedule D (Form 990) 2017 REFRIGERATING AND A-C		
Part XI Reconciliation of Revenue per Audited Financial		ue per Return.
Complete if the organization answered "Yes" on Form 990, Part		
1 Yotal revenue, gains, and other support per audited financial statement	8	
2 Amounts included on line 1 but not on Form 990, Part VIII, line 12:	1 - 1	
a Net unrealized gains (losses) on investments		~i
b Donated services and use of facilities		
c Recoveries of prior year grants	1 1	·
d Other (Describe in Part XIII.)		
e Add lines 2a through 2d		20
3 Subtract line 2e from line 1		
4 Amounts included on Form 990, Part VIII, line 12, but not on line 1:	ا مه ا	.:
a Investment expenses not included on Form 990, Part VIII, line 7b		
b Other (Describe in Part XIII.)		 :
c Add lines 4e and 4b	_ 40 \	4c
5 Total revenue. Add lines 3 and 4c. (This must equal Form 990, Part I, line Part XII Reconciliation of Expenses per Audited Financia	l Statements With Fynei	nses ner Return
Complete if the organization answered "Yes" on Form 990, Part	•	ises per metam.
Total expenses and losses per audited financial statements		11
		············
Amounts included on line 1 but not on Form 990, Part IX, line 25: Donated services and use of facilities	ا مم ا	∤· ∤
		 1
b Prior year adjustments		
c Other losses		 :
d Other (Describe in Part XIII.)		
e Add lines 2a through 2d		
3 Subtract line 2e from line 1		3
4 Amounts included on Form 990, Part IX, line 25, but not on line 1:	1 . 1	·
a Investment expenses not included on Form 990, Part VIII, line 7b		i
b Other (Describe in Part XIII.)	<u>4b</u>	
c Add lines 4a and 4b		
5 Total expenses. Add lines 3 and 4c. (This must equal Form 990, Part I,	<u>line 18.) </u>	5
Part XIII Supplemental Information.		
Provide the descriptions required for Part II, lines 3, 5, and 9; Part III, lines 1a		Part V, line 4; Part X, line 2; Part XI,
lines 2d and 4b; and Part XII, lines 2d and 4b. Also complete this part to prov	ride any additional information.	
9399 II T T T T T T T T T T T T T T T T T		
PART V, LINE 4:		
mun ongavitaamtovija nymovalnym ninma ann		
THE ORGANIZATION'S ENDOWMENT FUNDS ARE	HELD AND ADMINIA	STERED BY THE ASHRAE
TOUR TAXABLE AND ADDITION TO	DROUTER AWARDS	
FOUNDATION, A RELATED ORGANIZATION, TO	PROVIDE AWARDS	LO PROPIE MHO HAVE
NADE COMMUTERMICANC OF MUETE ENTIQUEERE	D ANOMI BDOB IN W	TE INTA ETEIN AND MO
MADE CONTRIBUTIONS OF THEIR ENLIGHTENE	D KNOWLEDGE IN T	HE HVAC FIELD AND TO
GIVE SCHOLARSHIPS TO STUDENTS OF EXCEL	T.PNCP TN TUP UNA	C FIELD. EARNINGS
GIVE SCHOLLARSHIPS TO STODENIS OF BACEL	DBMCE IN THE HVA	C FIED. EARNINGS
FROM THE ENDOWMENT FUNDS ARE UNRESTRIC	מפט אווי שפג מאיי	TO FIND VARIOUS
TROM THE EMPOWERST FORDE MALE CHARDINIC	180 AND AND CORD	TO FORD VARIOUS
GRANTS AND AWARDS.		
GRANIS AND AMARDS:		
	· <u>· · · · · · · · · · · · · · · · · · </u>	
		

SCHEDULE F (Form 990)

Statement of Activities Outside the United States

▶ Complete If the organization answered "Yes" on Form 990, Part IV, line 14b, 15, or 16. Attach to Form 990.

OMB No. 1545-0047

Open to Public

terns	Revenue Service	■ Go to v	www.irs.gov/Fo	rm990 for instructions and the latest	<u>Information.</u>	<u></u>	nspection
	e of the organization					Employer identi	fication number
	ERICAN SOCIET			TNO	į	 12 E <i>c</i> 750	0 E
	FRIGERATING A rt I General Info	mation on A	rctivities Ou	iside the United States. Comple	te if the organ	13-56750	73 Vest on
, 44 1	Form 990, Part IV			tile ellitea etateel comple	ve ii nia AiAai	ILELIOI E ISTORIS	100 VII
1			n maintain recon	ds to substantiate the amount of its gra	ınts and other	assistance,	
				the selection criteria used to award the			Yes X No
2	_	ribe in Part V the	organization's	procedures for monitoring the use of its	grants and o	ther assistance ou	tside the
2	United States.	he following Peri	l line 2 table o	an he dunlicated if additional anges is a	oodod \		
<u> </u>	(a) Region	(b) Number of	(c) Number of	an be duplicated if additional space is r (d) Activities conducted in the region		vity listed in (d)	(f) Total
	(a) Hogien	offices	employees, agents, and	(by type) (such as, fundraising, pro-		gram service,	expenditures
		in the region	independent contractors	gram services, investments, grants to		specific type	for and investments
			in the region	recipients located in the region)	of service	(s) in the region	in the region
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3 -	Sub-total	 	0	 			0.
	Total from continuation	<u> </u>	<u> </u>				-
_	sheets to Part I		0		, ·		.
C	Totals (add lines 3a						
	and 3b)		.0	13 17	L <u>.:</u>	<u> </u>	0.
LIA	Ear Department Deduct	Hon Act Notice	ees the Instru	vione for Earm 000		Cabadula C	/Earm 000\ 0017

732071 10-08-17

REFRIGERATING AND A-C ENGINEERS, INC.

Schedule F (Form 990) 2017

Grants and Other Assistance to Organizations or Entities Outside the United States. Complete if the organization answered "Yes" on Form 990, Part IV, line 15, for any recipient who received more than \$5,000. Part II can be duplicated if additional space is needed. Part II

Page 2

13-5675095

(i) Method of valuation (book, FMV, appraisal, other) (h) Description of noncash assistance (g) Amount of noncash assistance Enter total number of recipient organizations listed above that are recognized as charities by the foreign country, recognized as tax-exempt cash disbursement (f) Manner of of cash grant (e) Amount by the IRS, or for which the grantee or counsel has provided a section 501(c)(3) equivalency letter (d) Purpose of grant (c) Region Enter total number of other organizations or entities (b) IRS code section and EIN (if applicable) (a) Name of organization

732072 10-06-17

Schedule F (Form 990) 2017

REFRIGERATING AND A-C ENGINEERS, INC.

13-5675095

Schedule F (Form 990) 2017

Part iii . Grants and Other Assistance to Individuals Outside the United States. Complete if the organization answered "Yes" on Form 990, Part IV, line 16.

Part III can be duplicated if additional space is needed.

(a) Type of grant or assistance (b) Region	(b) Region	(c) Number of recipients	(d) Amount of cash grant	(e) Manner of cash disbursement	(f) Amount of noncash assistance	(g) Description of noncash assistance	(h) Method of valuation . (book, FMV, sopraisal other)
SCHOLARSHIPS	NORTH AMERICA	2	17,540	CASH DISBURSED THROUGH CHECKS	0		·
	SOUTH ASIA -						
	BANGLADESH,			CASH DISBURSED THROUGH			
SCHOLARSHIPS	BHUTAN, INDIA,	9	22,520,CHECKS	CHECKS	0		
	EAST ASIA AND THE						
	PACIFIC -						
	AUSTRALIA,			CASH DISBURSED THROUGH			
SCHOLARSHIPS	BRUNEI BURMA	3	13,423.	CHECKS	0		
	EUROPE (INCLUDING						
	ICELAND &						
	GREENTAND) -			CASH DISBURSED THROUGH			
SCHOLARSHIPS	ALBANTA, ANDORRA,	2	7.703,CHECKS	CHECKS	0		
							,

Schedule F (Form 990) 2017 .

Schedule F (Form 990) 2017

Par	IV Foreign Forms		
	,		-
1	Was the organization a U.S. transferor of property to a foreign corporation during the tax year? If "Yes," the		
	organization may be required to file Form 926, Return by a U.S. Transferor of Property to a Foreign		
	Corporation (see Instructions for Form 926)	Yes	X No
2	Did the organization have an interest in a foreign trust during the tax year? If "Yes," the organization		
	may be required to separately file Form 3520, Annual Return To Report Transactions With Foreign		
	Trusts and Receipt of Certain Foreign Gifts, and/or Form 3520-A, Annual Information Return of Foreign		
	Trust With a U.S. Owner (see Instructions for Forms 3520 and 3520-A; don't file with Form 990)	Yes	X No
3	Did the organization have an ownership interest in a foreign corporation during the tax year? If "Yes,"		
	the organization may be required to file Form 5471, Information Return of U.S. Persons With Respect To		
	Certain Foreign Corporations (see Instructions for Form 5471)	X Yes	☐ No
4	Was the organization a direct or indirect shareholder of a passive foreign investment company or a		
	qualified electing fund during the tax year? If "Yes," the organization may be required to file Form 8621,		
	Information Return by a Shareholder of a Passive Foreign Investment Company or Qualified Electing Fund		
	(see Instructions for Form 8621)	Yes	X No
5	Did the organization have an ownership interest in a foreign partnership during the tax year? If "Yes,"		
	the organization may be required to file Form 8865, Return of U.S. Persons With Respect to Certain		
	Foreign Partnerships (see Instructions for Form 8865)	Yes	X No
6	Did the organization have any operations in or related to any boycotting countries during the tax year? If		
	"Yes," the organization may be required to separately file Form 5713, International Boycott Report (see		
	Instructions for Form 5713; don't file with Form 990)	Yes	X No
-	· · · · · · · · · · · · · · · · · · ·		

AMERICAN SOCIETY OF HEATING, 13-5675095 Schedule F (Form 990) 2017 REFRIGERATING AND A-C ENGINEERS. INC. Page 5 Part V Supplemental Information Provide the information required by Part I, line 2 (monitoring of funds); Part I, line 3, column (f) (accounting method; amounts of investments vs. expenditures per region); Part II, line 1 (accounting method); Part III (accounting method); and Part III, column (c) (estimated number of recipients), as applicable. Also complete this part to provide any additional information. See instructions.

SCHEDULE (Form 990) Department of the Tressury Internal Revenue Service

Governments, and Individuals in the United States Grants and Other Assistance to Organizations,

Complete if the organization answered "Yes" on Form 990, Part IV, line 21 or 22. ▼ Attach to Form 990.

OMB No. 1545-0047	2017	Open to Public Inspection

▶ Go to www.irs.gov/Form990 for the latest information.

AMERICAN SOCIETY OF HEATING,

Schedule I (Form 990) (2017) % |**X** Employer identification number 13-5675095 (h) Purpose of grant or assistance ×es × Grants and Other Assistance to Domestic Organizations and Domestic Governments. Complete if the organization answered "Yes" on Form 990, Part IV, line 21, for any Does the organization maintain records to substantiate the amount of the grants or assistance, the grantees' eligibility for the grants or assistance, and the selection (g) Description of noncash assistance (f) Method of valuation (book, FMV, appraisal, other) (e) Amount of assistance non-cash Describe in Part IV the organization's procedures for monitoring the use of grant funds in the United States. recipient that received more than \$5,000. Part II can be duplicated if additional space is needed. criteria used to award the grants or assistance? (d) Amount of INC. cash grant Enter total number of section 501(c)(3) and government organizations listed in the line 1 table REFRIGERATING AND A-C ENGINEERS, (c) IRC section (if applicable) LHA For Paperwork Reduction Act Notice, see the Instructions for Form 980. Enter total number of other organizations listed in the line 1 table General Information on Grants and Assistance (b) EIN 1 (a) Name and address of organization or government Name of the organization Part Part

REFRIGERATING AND A-C ENGINEERS, INC.

Page 2

13-5675095

Schedule i (Form 990) (2017) REFRIGERATING AND A-C ENGINEERS, INC.

[Part III] Grants and Other Assistance to Domestic Individuals. Complete if the organization answered "Yes" on Form 990, Part IV, line 22.

Part III can be duplicated if additional space is needed.

(a) Type of grant or assistance	(b) Number of recipients	(c) Amount of cash grant	(d) Amount of non- cash assistance	(e) Method of valuation (book, FMV, appraisal, other)	(f) Description of noncash assistance
DURE OF THE CO.			c		
Part IV Supplemental Information. Provide the information required in Part I, line 2; Part III, column (b); and any other additional information.	uired in Part I, lin	e 2; Part III, column	(b); and any other ac	Iditional information.	
		!			

Schedule I (Form 990) (2017)

SCHEDULE J (Form 990)

Compensation Information

For certain Officers, Directors, Trustees, Key Employees, and Highest

Compensated Employees

Complete if the organization answered "Yes" on Form 990, Part IV, line 23. Attach to Form 990.

OMB No. 1545-0047

Department of the Tressury Internal Revenue Service Name of the organization

► Go to www.irs.gov/Form990 for instructions and the latest information. AMERICAN SOCIETY OF HEATING,

Inspection **Employer identification number**

Part I Questions Regarding Compensation

13-5675095 <u>REFRIGERATING AND A-C ENGINEERS,</u> INC.

			Yes	No
1a	Check the appropriate box(es) if the organization provided any of the following to or for a person listed on Form 990,			
	Part VII, Section A, line 1a. Complete Part III to provide any relevant information regarding these items.			
	First-class or charter travel Housing allowance or residence for personal use			
	Travel for companions Payments for business use of personal residence			
	Tax indemnification and gross-up payments Health or social club dues or initiation fees	١.		
	Discretionary spending account Personal services (such as, maid, chauffeur, chef)			• • •
b	If any of the boxes on line 1a are checked, did the organization follow a written policy regarding payment or	, '··		·
_	reimbursement or provision of all of the expenses described above? If "No," complete Part III to explain	1b	х	
2	Did the organization require substantiation prior to reimbursing or allowing expenses incurred by all directors,			
_	trustees, and officers, including the CEO/Executive Director, regarding the items checked on line 1a?	2	x	1
		_		
3	Indicate which, if any, of the following the filing organization used to establish the compensation of the organization's		i	
	CEO/Executive Director. Check all that apply. Do not check any boxes for methods used by a related organization to	'	'	
	establish compensation of the CEO/Executive Director, but explain in Part III.		l	
	X Compensation committee			
	Independent compensation consultant Compensation survey or study			
	Form 990 of other organizations X Approval by the board or compensation committee			l
	— · - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	ļ .,	١.	١.
4	During the year, did any person listed on Form 990, Part VII, Section A, line 1a, with respect to the filing		.	١.
	organization or a related organization:	-		
a	Receive a severance payment or change-of-control payment?	48		X
b	Participate in, or receive payment from, a supplemental nonqualified retirement plan?	4b		X
C	Participate in, or receive payment from, an equity-based compensation arrangement?	4c		X
	If "Yes" to any of lines 4a-c, list the persons and provide the applicable amounts for each item in Part III.			
		٠.		
	Only section 501(c)(3), 501(c)(4), and 501(c)(29) organizations must complete lines 5-9.		١	
5	For persons listed on Form 990, Part VII, Section A, line 1a, did the organization pay or accrue any compensation		•	ľ .
	contingent on the revenues of:	ļ ·	١.	
8	The organization?	5a		X
b	Any related organization?	5b		X
	If "Yes" on line 5a or 5b, describe in Part III.			
6	For persons listed on Form 990, Part VII, Section A, line 1a, did the organization pay or accrue any compensation		١.	
	contingent on the net earnings of:	ļ	ļ	
8	The organization?	6a		X
b	Any related organization?	6b		X
	If "Yes" on line 6a or 6b, describe in Part III.	'	ľ	
7	For persons listed on Form 990, Part VII, Section A, line 1a, did the organization provide any nonfixed payments			
	not described on lines 5 and 67 If "Yes," describe in Part III	7		X
8	Were any amounts reported on Form 990, Part VII, paid or accrued pursuant to a contract that was subject to the	.		· .
	initial contract exception described in Regulations section 53.4958-4(a)(3)? If "Yes," describe in Part III	8_		X
9	If "Yes" on line 8, did the organization also follow the rebuttable presumption procedure described in			
	Regulations section 53.4958-6(c)?	9	l .	

LHA For Paperwork Reduction Act Notice, see the Instructions for Form 990.

Schedule J (Form 990) 2017

Part II Officers, Directors, Trustees, Key Employees, and Highest Compensated Employees. Use duplicate copies if additional space is needed.

REFRIGERATING AND A-C ENGINEERS, INC.

Schedule J (Form 990) 2017

13-5675095

For each individual whose compensation must be reported on Schedule J, report compensation from the organization on row (i) and from related organizations, described in the instructions, on row (ii). Do not list any individuals that aren't listed on Form 990, Part VII.

Note: The sum of columns (B)(i)-(iii) for each listed individual must equal the total amount of Form 990, Part VII, Section A, line 1a, applicable column (D) and (E) amounts for that individual.

		(B) Breakdown of	(B) Breakdown of W-2 and/or 1099-MISC compensation	SC compensation	(C) Retirement and	(D) Nontaxable	(E) Total of columns	(F) Compensation
(A) Name and Title	•	(i) Base compensation	(ii) Bonus & incentive compensation	(iii) Other reportable compensation	other deferred compensation	benefits	(a)-(e)(a)	in column (B) reported as deferred on prior Form 990
(1) JEFF H LITTLETON	ε	366,042.	0.	0.	27,781.	7,050.	400,873.	0
RETARY		0.	0.	0.	0	0.	0	0
HEN W COMSTOCK	Ξ	209,573.	0.	0.	20,819.	1,968.	232,360.	0
CTOR OF PUBLICATIONS A		0	0	0.	0			0
	Ξ	160,735.		0.	14,803.	4,25	179,78	0
CTOR OF FINANCE & ADMI	€	0.	0.	0.	0			0.
	ε	159,137.		0.	14,424.	2,52	176,08	0.
F DEVELOPMENT OFFICER	8	0.		0.	0			0.
	Ξ	156,568.		0.	13,922.		176,14	.0
CTOR OF MARKETING	€	0.	0.	.0	0	0.	0.	0
BRAMS	[(D)	147,915.		0.	14,438.	2,024.	164,377.	0
CTOR OF MEMBER SERVICES		0.		0.	0	0.	0.	0
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REFRIGERATING AND A-C ENGINEERS, INC.

Schedule J (Form 990) 2017

Provide the information, explanation, or descriptions required for Part I, lines 1a, 1b, 3, 4a, 4b, 4c, 5a, 5b, 6a, 6b, 7, and 8, and for Part II. Also complete this part for any additional information. Part III Supplemental Information

Page 3

13-5675095

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Schedule J (Form 990) 2017 "

SCHEDULE 0 (Form 990 or 990-EZ)

Department of the Treasury Internal Revenue Service

Supplemental Information to Form 990 or 990-EZ

Complete to provide information for responses to specific questions on Form 990 or 990-EZ or to provide any additional information.

Attach to Form 990 or 990-EZ.

Open to Public ■ Go to www.irs.gov/Form990 for the latest information. Inspection

Name of the organization

AMERICAN SOCIETY OF HEATING,

Employer identification number

OMB No. 1545-0047

REFRIGERATING AND A-C ENGINEERS, INC. 13-56/5095
FORM 990, PART I, LINE 1, DESCRIPTION OF ORGANIZATION MISSION:
("ASHRAE") IS TO ADVANCE THE ARTS AND SCIENCES OF HEATING, VENTALATING
AND REFRIGERATING TO SERVE HUMANITY AND PROMOTE A SUSTAINABLE WORLD.
FORM 990, PART III, LINE 4D, OTHER PROGRAM SERVICES:
TECHNOLOGY - INCLUDING THE FOLLOWING AREA: ENVIRONMENTAL HEALTH,
REFRIGERATION, RESEARCH ADMINISTRATION, STANDARDS AND TECHNICAL
ACTIVITIES.
EXPENSES \$ 1,882,800. INCLUDING GRANTS OF \$ 0. REVENUE \$ 0.
EXPOSITION - INCLUDING ADMISSIONS AND ROYALTIES FROM THE ANNUAL
EXPOSITION
EXPENSES \$ 0. INCLUDING GRANTS OF \$ 0. REVENUE \$ 6,883,114.
FORM 990, PART VI, SECTION A, LINE 6:
ASHRAE IS A MEMBERSHIP ORGANIZATION
FORM 990, PART VI, SECTION A, LINE 7A:
THE MEMBERS OF ASHRAE NOMINATE AND ELECT THE MEMBERS OF THE BOARD OF
TRUSTEES.
FORM 990, PART VI, SECTION A, LINE 7B:
ANY CHANGES TO ASHRAE'S BYLAWS ARE SUBJECT TO MEMBER APPROVAL.
FORM 990, PART VI, SECTION B, LINE 11B:
THE BOARD OF DIRECTORS RECEIVE A COPY OF THE FORM 990 FOR REVIEW. ANY

732211 09-07-17

LHA For Paperwork Reduction Act Notice, see the Instructions for Form 990 or 990-EZ.

Schedule O (Form 990 or 990-EZ) (2017)

Name of the organization AMERICAN SOCIETY OF HEATING, REPRIGERATING AND A-C ENGINERS, INC. 13-5675095 COMMENTS ARE TAKEN UNDER CONSIDERATION PRIOR TO FILING THE FORM 990. FORM 990, PART VI, SECTION B, LINE 12C: THE EXECUTIVE COMMITTEE MONITORS THE POLICY FOR THE BOARD OF DIRECTORS. FORM 990, PART VI, SECTION B, LINE 15: THE SALARY ADMINISTRATION COMMITTEE MEETS EACH YEAR TO DETERMINE THE SALARIES. FORM 990, PART VI, LINE 17, LIST OF STATES RECEIVING COPY OF FORM 990: GA, AL, AK, AZ, AR, CA, CO, CT, DC, DE, FL, HI, ID, IL, IN, IA, KS, LA, ME, MD, MA, MI, MN, MS, MO MT, NE, NV, NJ, NM, NY, NC, ND, OH, OK, OR, PA, RI, SC, NH, SD, TN, TX, UT, VT, VA, WA, WV, WI, WY FORM 990, PART VI, SECTION C, LINE 19: THE ORGANIZATION MAKES ITS GOVERNING DOCUMENTS, CONFLICT OF INTEREST POLICY AND FINANCIAL STATEMENTS AVAILABLE TO THE PUBLIC THROUGH ITS WEBSITE.	<u>Schedule O (Form 990 or 9</u>				 	Page
COMMENTS ARE TAKEN UNDER CONSIDERATION PRIOR TO FILING THE FORM 990. FORM 990, PART VI, SECTION B, LINE 12C: THE EXECUTIVE COMMITTEE MONITORS THE POLICY FOR THE BOARD OF DIRECTORS. FORM 990, PART VI, SECTION B, LINE 15: THE SALARY ADMINISTRATION COMMITTEE MEETS EACH YEAR TO DETERMINE THE SALARIES. FORM 990, PART VI, LINE 17, LIST OF STATES RECEIVING COPY OF FORM 990: GA, AL, AK, AZ, AR, CA, CO, CT, DC, DE, FL, HI, ID, IL, IN, IA, KS, LA, ME, MD, MA, MI, MN, MS, MO MT, NE, NV, NJ, NM, NY, NC, ND, OH, OK, OR, PA, RI, SC, NH, SD, TN, TX, UT, VT, VA, WA, WV, WI, WY FORM 990, PART VI, SECTION C, LINE 19: THE ORGANIZATION MAKES ITS GOVERNING DOCUMENTS, CONFLICT OF INTEREST POLICY						
COMMENTS ARE TAKEN UNDER CONSIDERATION PRIOR TO FILING THE FORM 990. FORM 990, PART VI, SECTION B, LINE 12C: THE EXECUTIVE COMMITTEE MONITORS THE POLICY FOR THE BOARD OF DIRECTORS. FORM 990, PART VI, SECTION B, LINE 15: THE SALARY ADMINISTRATION COMMITTEE MEETS EACH YEAR TO DETERMINE THE SALARIES. FORM 990, PART VI, LINE 17, LIST OF STATES RECEIVING COPY OF FORM 990: GA,AL,AK,AZ,AR,CA,CO,CT,DC,DE,FL,HI,ID,IL,IN,IA,KS,LA,ME,MD,MA,MI,MN,MS,MO MT,NE,NV,NJ,NM,NY,NC,ND,OH,OK,OR,PA,RI,SC,NH,SD,TN,TX,UT,VT,VA,WA,WV,WI,WY FORM 990, PART VI, SECTION C, LINE 19: THE ORGANIZATION MAKES ITS GOVERNING DOCUMENTS, CONFLICT OF INTEREST POLICY		<u>REFRIGERATI</u>	NG AND A-C	<u>ENGINEERS,</u>	INC.	13-5675095
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THE ORGANIZATION MAKES ITS GOVERNING DOCUMENTS, CONFLICT OF INTEREST POLICY	MT, NE, NV, NJ, NI	M,NY,NC,ND,O	OH,OK,OR,PA,	RI,SC,NH,SI	O,TN,TX,UT,	VT, VA, WA, WV, WI, WY
	FORM 990, PAR	r VI, SECTIO	ON C, LINE 1	.9:		
AND FINANCIAL STATEMENTS AVAILABLE TO THE PUBLIC THROUGH ITS WEBSITE.	THE ORGANIZAT	ION MAKES IT	S GOVERNING	DOCUMENTS	CONFLICT	OF INTEREST POLIC
	AND FINANCIAL	STATEMENTS	AVAILABLE T	O THE PUBLI	C THROUGH	ITS WEBSITE.
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SCHEDULE R (Form 990)

Related Organizations and Unrelated Partnerships

2017

OMB No. 1545-0047

Open to Public inspection.

Employer identification númber 13-5675095

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Complete if the organization answered "Yes" on Form 990, Part IV, line 33, 34, 35b, 38, or 37. Go to www.irs.gov/Form980 for instructions and the latest information. ► Attach to Form 990. REFRIGERATING AND A-C ENGINEERS, INC. AMERICAN SOCIETY OF HEATING, Name of the organization Department of the Treasury Internal Revenue Service

Identification of Disregarded Entities. Complete if the organization answered "Yes" on Form 990, Part IV, line 33.

Part

ê

Direct controlling entity End-of-year assets 3 Total income Legal domicile (state or foreign country) Primary activity Name, address, and EIN (if applicable) of disregarded entity Part

Identification of Related Tax-Exempt Organizations. Complete if the organization answered "Yes" on Form 990, Part IV, line 34, because it had one or more related tax-exempt organizations during the tax year.

(g) Section 5 12(b)(13) controlled entity?	No			×			×				
Section	Yes										
(f) Direct controlling entity				N/A			N/A				
(e) Public charity status (if section	501(c)(3))			11(A)						•	
(d) Exempt Code section				501(C)(3)							
(c) Legal domicile (state or foreign country)				GRORGIA			CANADA				
(b) Primary activity		TO SUPPORT AND BENEFIT	ASHRAE BY GIVING AWARDS	AND SCHOLARSHIPS,		TO BENEFIT THE CANADIAN	MEMBERS OF ASHRAE				
(a) Name, address, and EIN of related organization		A.S.H.R.A.E. FOUNDATION - 58-6274320	1791 TULLIE CIRCLE N.E.	ATLANTA, GA 30329-2305	ASHRAE RESEARCH CANADA	1791 TULLIE CIRCLE N.E.	ATLANTA GA 30329-2305				

For Paperwork Reduction Act Notice, see the Instructions for Form 990.

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Schedule R (Form 980) 2017 -

REFRIGERATING AND A-C ENGINEERS, INC. Schedule R (Form 990) 2017 Part III | Identification of Related Organizations Taxable as a Partnership. Complete if the organization answered "Yes" on Form 990, Part IV, line 34, because it had one or more related in organizations treated as a partnership during the tax year.

Page 2

13-5675095

(a)	2	<u> </u>	5	e	8	(B)	ε	8	9	\$.
Name, address, and EIN of related organization	Primary activity	domicile (state or	Direct controlling entity	Predominant income (related, unrelated, excluded from tax under	Share of total income	Share of end-of-year	Disproportionata abocations?	amount in box	General or menaging pertner?	General or Percentage meneding ownership pertner?
		country)		sections 512-514)		dSSB1S	Yes No		Yes No	
		_					_			
					:					
				_						
part IV. Identification of Related Organizations Taxable as a Corporation or Trust. Complete if the organization answered "Yes" on Form 990, Part IV, line 34, because it had one or more related	ganizations Taxable a	s a Corpo	ation or Trust Cor	nplete if the organization	on answered "Yes	" on Form 990, Pa	art IV, line 3	4, because it had o	ne or mo	ore related

organizations treated as a corporation or trust during the tax year.

1	l 1	ı ı	,	•	,	_
Section 512(b) (1) controlled entity?						90) 201
(h) Percentage sownership						Schedule R (Form 990) 2017
						hedule
(g) Share of end-of-year assets						<i>3</i>
(f) Share of total income						
(e) Type of entity (C corp. S corp. or trust)						
(d) Direct controlling entity						
(c) Legal domicile (state or foreign country)						26
(b) Primary activity						
(a) Name, address, and EIN of related organization						732162 08-11-17

INC. REFRIGERATING AND A-C ENGINEERS, Schedule R (Form 990) 2017

Page 3

13-5675095

Part V: Transactions With Related Organizations. Complete if the organization answered "Yes" on Form 990, Part IV, line 34, 35b, or 36.

Schedule R (Form 990) 2017 × 2 7 른 9 두 5 Method of determining amount involved 7 Receipt of (i) interest, (ii) annuities, (iii) royalties, or (iv) rent from a controlled entity Gift, grant, or capital contribution from related organization(s) Lease of facilities, equipment, or other assets from related organization(s) Sharing of paid employees with related organization(s) Loans or loan guarantees by related organization(s) Dividends from related organization(s) Reimbursement paid to related organization(s) for expenses Reimbursement paid by related organization(s) for expenses If the answer to any of the above is "Yes," see the instructions for information on who must complete this line, including covered relationships and transaction thresholds. 134, 286. ACTUAL AMOUNTS 110,000. ACTUAL AMOUNTS 232,080.ACTUAL COSTS During the tax year, did the organization engage in any of the following transactions with one or more related organizations listed in Parts II-IV? (c) Amount involved **Fransaction** type (a-s) 57 Performance of services or membership or fundraising solicitations for related organization(s) Performance of services or membership or fundraising solicitations by related organization(s) Ы U Ŋ Sharing of facilities, equipment, mailing lists, or other assets with related organization(s) Note: Complete line 1 if any entity is listed in Parts II, III, or IV of this schedule. Lease of facilities, equipment, or other assets to related organization(s) Other transfer of cash or property from related organization(s) Other transfer of cash or property to related organization(s) Giff, grant, or capital contribution to related organization(s) Loans or loan guarantees to or for related organization(s) (a) Name of related organization Purchase of assets from related organization(s) Exchange of assets with related organization(s) Z A.S.H.R.A.E. FOUNDATION (3) A.S.H.R.A.E. FOUNDATION (1) ASHRAE RESEARCH CANADA Sale of assets to related organization(s) 732163 09-11-17 E ۵ € 9 9

13-5675095 Page 4

AMERICAN SOCIETY OF HEATING,

Schedule R (Form 990) 2017 REFRIGERATING AND A-C ENGINEERS, INC.

Part VI Urrelated Organizations Taxable as a Partnership. Complete if the organization answered "Yes" on Form 990, Part IV, line 37.

Provide the following information for each entity taxed as a partnership through which the organization conducted more than five percent of its activities (measured by total assets or gross revenue) that was not a related organization. See instructions regarding exclusion for certain investment partnerships.

(k) Sentage nership			ł			{	
O Perce		 					
General or menaging pertne?							
(h) (i) (ii) (ii) (iii) Dispreper Bustle Bu							
(h)		 -					
8-3 6		 					
(g) Share of end-of-year assets							
Share of total income							
Anales sec. 501(c)(3)							
Predominant income Reference (related, unrelated, excluded from tax undersections 512-514)							
(c) Legal domicite (state or foreign e				!			
(b) Primary activity							
(a) Name, address, and EIN of entity							

4	6	AMERICAN	SOCIE	TY OF	HEATING,		3	Ī
Schedule R	(Form 990) 2017 Supplemental Infor	REFRIGER	ATING	AND A-	C ENGINE	RS, INC.	<u>13-5675095</u>	Page 5
Part VII	Supplemental Infor	mation.						
	Provide additional informa	ation for responses	to questio	ns on Sched	ule R. See instruc	ctions.	_	
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