

TECHNICAL FILE

Nomenclature



MODEL

Steam **CFS**

Ø: Fan Diameter

12"	12
14"	14
16"	16
18"	18
20"	20
22"	22
24"	24
26"	26
30"	30
36"	36

R: Number of rows

1
2

P: Number of Passes

1

TUBE: Material

Steel	A
Stainless Steel 304L	B
Stainless Steel 316L	C
Copper-Nickel	D

COIL: Coating

Aluminum **A**
Heresite **B**

CASING

Galvanized steel **GS**
Painted steel **SP**
Stainless steel 304 **SS**

DISCHARGE

Open face **01**
Louvers **02**
High velocity **03**

MOTOR

110V - 1 - 60 **110**
600V - 3 - 60 **600**

Selection example:

CFS-1821-AA-GS-02-110

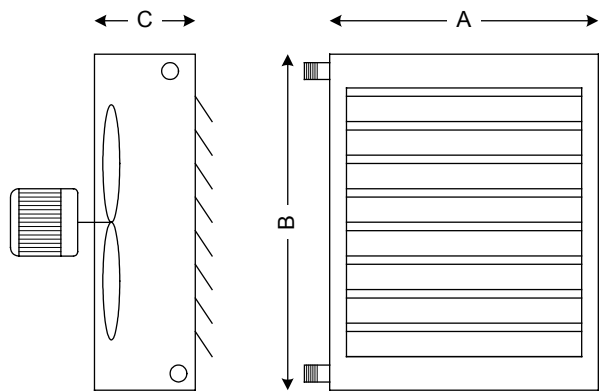
Construction

Unit heaters manufactured by Caron et fils are supplied with a CRN (Canadian Registration Number) for a maximum allowable working pressure of 160psig @ 400°F.

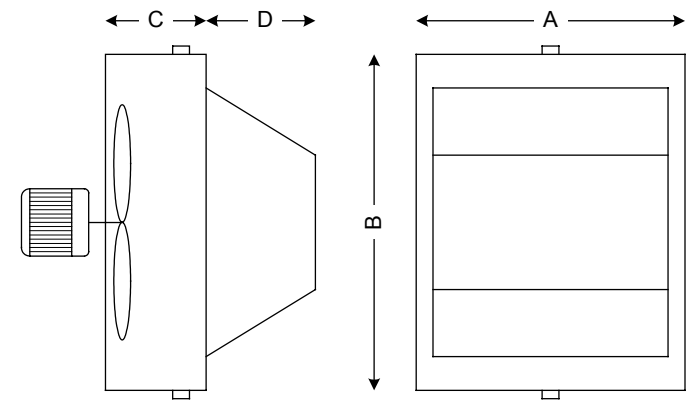
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Dimensions

MODEL [CFS-ΦRP]	A	B	C	D	NOZZLES		MOTOR	
					INLET	OUTLET	110V/1/60	600V/3/60
CFS - 1211	22" 1/4	27"	12"	22"	2" sch 40	2" sch 40	1/4 hp - 1725 rpm	1/3 hp - 1725 rpm
CFS - 1221					1 1/2" 3000#	1" 3000#		
CFS - 1411	24" 1/4	29"	12"	22"	2" sch 40	2" sch 40		
CFS - 1421					1 1/2" 3000#	1" 3000#		
CFS - 1611	28" 1/4	33"	12"	26"	2" sch 40	2" sch 40	1/3 hp - 1725 rpm	
CFS - 1621					1 1/2" 3000#	1" 3000#		
CFS - 1811	30" 1/4	35"	12"	28"	2" sch 40	2" sch 40	1/3 hp - 1140 rpm	1/3 hp - 1140 rpm
CFS - 1821					1 1/2" 3000#	1" 3000#		
CFS - 2011	32" 1/4	37"	12"	30"	2 1/2" sch 40	2 1/2" sch 40	1/2 hp - 1140 rpm	1/2 hp - 1140 rpm
CFS - 2021					2" 3000#	1" 3000#		
CFS - 2211	36" 1/4	41"	20"	33"	2 1/2" sch 40	2 1/2" sch 40	3/4 hp - 1140 rpm	3/4 hp - 1140 rpm
CFS - 2221					2" 3000#	1" 3000#		
CFS - 2411	38" 1/4	43"	20"	34"	2 1/2" sch 40	2 1/2" sch 40		
CFS - 2421					2 1/2" 3000#	1" 3000#		
CFS - 2611	40" 1/4	45"	20"	36"	2 1/2" sch 40	2 1/2" sch 40	1 hp - 850 rpm	1 hp - 850 rpm
CFS - 2621					2 1/2" 3000#	1" 3000#		
CFS - 3011	44" 1/4	49"	20"	40"	2 1/2" sch 40	2 1/2" sch 40	n/a	2 hp - 1170 rpm
CFS - 3021					2 1/2" 3000#	1" 3000#		
CFS - 3611	50" 1/4	55"	20"	45"	2 1/2" sch 40	2 1/2" sch 40		
CFS - 3621					2 1/2" 3000#	1" 3000#		3 hp - 1170 rpm



1 row model / Louver type discharge



2 rows model / High velocity discharge type

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Performances [Chart 1 of 2]

Performance data presented in the following chart apply to steel tube unit heaters. For any other type of tube material, please contact our technical service.

The following charts will help determine the appropriate model, based on system steam pressure and heating performance.

The following performance data is calculated with an inlet air temperature of 60°F.

HEAT LOAD [BTU/HR]	STEAM PRESSURE									AIR FLOW [S.C.F.M.]	MODEL
	15 PSIG			50 PSIG			75 PSIG				
	LAT [F]	COND. [LB/HR]	HEATLOAD [BTU/HR]	LAT [F]	COND. [LB/HR]	HEAT LOAD [BTU/HR]	LAT [F]	COND. [LB/HR]			
72 120	108	75	90 460	121	100	98 975	126	110	1 350	CFS-1211	
89 100	108	95	111 765	120	125	122 280	126	140	1 680	CFS-1411	
122 120	149	130	153 145	172	165	167 550	182	190	1 240	CFS-1221	
129 780	107	135	162 820	119	180	178 145	124	200	2 510	CFS-1611	
150 965	107	160	189 405	119	210	207 230	125	230	2 900	CFS-1811	
153 590	148	160	192 625	170	210	210 740	181	235	1 580	CFS-1421	
180 030	105	190	225 890	117	250	247 150	122	275	3 600	CFS-2011	
227 975	146	240	285 950	168	315	312 850	178	350	2 400	CFS-1621	
238 575	104	250	299 380	115	330	327 570	120	365	4 900	CFS-2211	
245 835	153	260	308 310	176	340	377 310	185	380	2 400	CFS-1821	
270 360	104	285	339 280	115	370	371 225	120	415	5 600	CFS-2411	
302 215	148	320	379 075	171	415	414 745	181	465	3 100	CFS-2021	
307 190	103	325	385 530	114	420	421 835	119	470	6 500	CFS-2611	
357 600	130	380	448 500	148	490	490 695	156	550	4 600	CFS-2221	
412 210	129	435	517 025	147	565	565 670	155	630	5 400	CFS-2421	
422 700	96	445	530 675	106	580	580 675	110	650	10 500	CFS-3011	
452 085	130	475	567 020	148	620	620 370	157	695	5 800	CFS-2621	
565 200	95	600	709 665	105	780	776 545	109	865	14 400	CFS-3611	
644 910	121	682	809 150	137	885	885 315	144	990	9 500	CFS-3021	

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Performances [Chart 2 of 2]

STEAM PRESSURE									AIR FLOW [S.C.F.M.]	MODEL
100 PSIG			125 PSIG			150 PSIG				
HEAT LOAD [BTU/HR]	LAT(F)	COND. [LB/HR]	HEAT LOAD [BTU/HR]	LAT (F)	COND. [LB/HR]	HEAT LOAD [BTU/HR]	LAT (F)	COND. [LB/HR]		
105 720	131	120	111 350	135	130	116 210	138	135	1 350	CFS-1211
130 610	130	150	137 570	134	160	143 570	137	165	1 680	CFS-1411
178 970	191	200	188 515	197	220	196 755	203	230	1 240	CFS-1221
190 285	129	215	200 415	132	230	209 150	135	245	2 510	CFS-1611
221 355	129	250	233 140	133	270	243 300	136	285	2 900	CFS-1811
225 110	189	255	237 110	196	275	247 465	202	290	1 580	CFS-1421
263 990	126	300	278 040	130	320	290 155	133	340	3 600	CFS-2011
334 180	186	380	351 985	193	405	367 350	198	430	2 400	CFS-1621
349 890	125	400	368 500	128	425	384 550	131	450	4 900	CFS-2211
360 310	196	410	379 520	203	435	396 105	209	460	2 400	CFS-1821
396 515	124	450	417 605	127	481	435 785	130	510	5 600	CFS-2411
443 015	189	500	466 625	196	535	487 000	202	570	3 100	CFS-2021
450 570	123	510	474 530	126	546	495 180	129	575	6 500	CFS-2611
524 150	163	595	552 095	169	635	576 220	173	670	4 600	CFS-2221
604 235	161	685	636 440	167	730	664 240	171	775	5 400	CFS-2421
620 220	113	705	653 155	116	750	681 520	119	795	10 500	CFS-3011
662 665	163	750	697 990	169	805	728 485	174	850	5 800	CFS-2621
829 420	112	940	873 450	115	1 005	911 350	117	1 060	14 400	CFS-3611
945 650	150	1 075	996 000	155	1 145	1 039 420	159	1 210	9 500	CFS-3021

LAT: Leaving air temperature
COND.: Steam Consumption

****NOTE:** This technical file is subjected to change without further notice.