Publication No. RU-RWF-0313A

Russell

Flow-Temp

LOW VELOCITY UNIT COOLER

Flow-Temp low air velocity unit coolers are ideally suited for meat cutting, holding and packing rooms as well as produce storage and florist boxes.

Features:

- There are nine models available, ranging in capacity from 5,000 to 34,000 Btuh @ 10°TD
- Rust free heavy gauge embossed Aluminum housing is standard. Optionally available with alternate materials and coatings.
- Seamless enhanced Copper tubes are staggered and mechanically expanded into corrugated Aluminum fins assuring maximum heat transfer.
- Optional Copper fins and fin coatings are available.
- Available voltages: 115/1/60, 208/230/1/60, 460/1/60, 100/1/50, 200-220/1/50 and 380/1/50.
- Fan motors and blades can be easily accessed by lowering the hinged drain pan.
- Standard motors are permanently lubricated with thermal overload protection.
- High efficiency EC motors are standard, PSC or shaded pole motors are optionally available.
- All models are available in air, electric and hot gas defrosts designs.
- Air defrost units are suitable for use in coolers down to 35°F.
- Electric, Hot Gas Re-Evap and Hot Gas Reverse Cycle models are designed for use in rooms down to 28°F.

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FLOW-TEMP

Nomenclature

MODEL NUMBER NOMENCLATURE

R	W	F	050	A	E	1	B	1	1	A	1	A
I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII

I. Brand Name
R – Russell

II. Unit type
W – Walk In Unit Cooler

III. Series
F – Low Air Velocity

IV. Capacity or Degree of Capacity –
050, 075, 100, 130, 160, 190, 220, 270, 340

V. Voltage Code
A – 115/1/60
D – 208-230/1/60
F – 460/1/60
L – 100/1/50
M – 200-220/1/50
P – 380/1/50
X – Other

VI. Motor/Fan Type
E – (EC) Electronically Commutated
P – (PSC) Permanent Split Capacitor
S – (SP) Shaded Pole
X - Other

VII. Length in Fans
1, 2, 3, 4, 5, 6

VIII. Coil Density
B – 6 fpi
X – Other

IX. Coil Material and Coating Options
1 – Aluminum fins (Al)
2 –- Copper fins (Cu)
3 – Al + AST coating
4 – Al + Blygold
5 – Al + Bronze Glow
6 – Al + Heresite
8 –- Al + Russ-Proof
X – Other
NOTE: Coil coatings are not available for electric defrost models

X. Housing Material Coatings
1 – Aluminum, Embossed
2 – Galvanized
3 – White Painted
6 – Stainless Steel 304
X – Other

XI. Unit Design Configuration
A – Air Defrost
E – Electric Defrost
G – Hot Gas Reverse Cycle Defrost with drain pan loop
H – Hot Gas Re-Evaporative Defrost with drain pan loop
K – Hot Gas Reverse Cycle Defrost with 115V heater
L – Hot Gas Reverse Cycle Defrost with 208/230V heater
X – Other

XII. Not Currently Used
1 – Standard

XIII. Revision Code – Single Alphanumeric Character
A – Current Revision

Performance Data

60 Hz Capacity Data

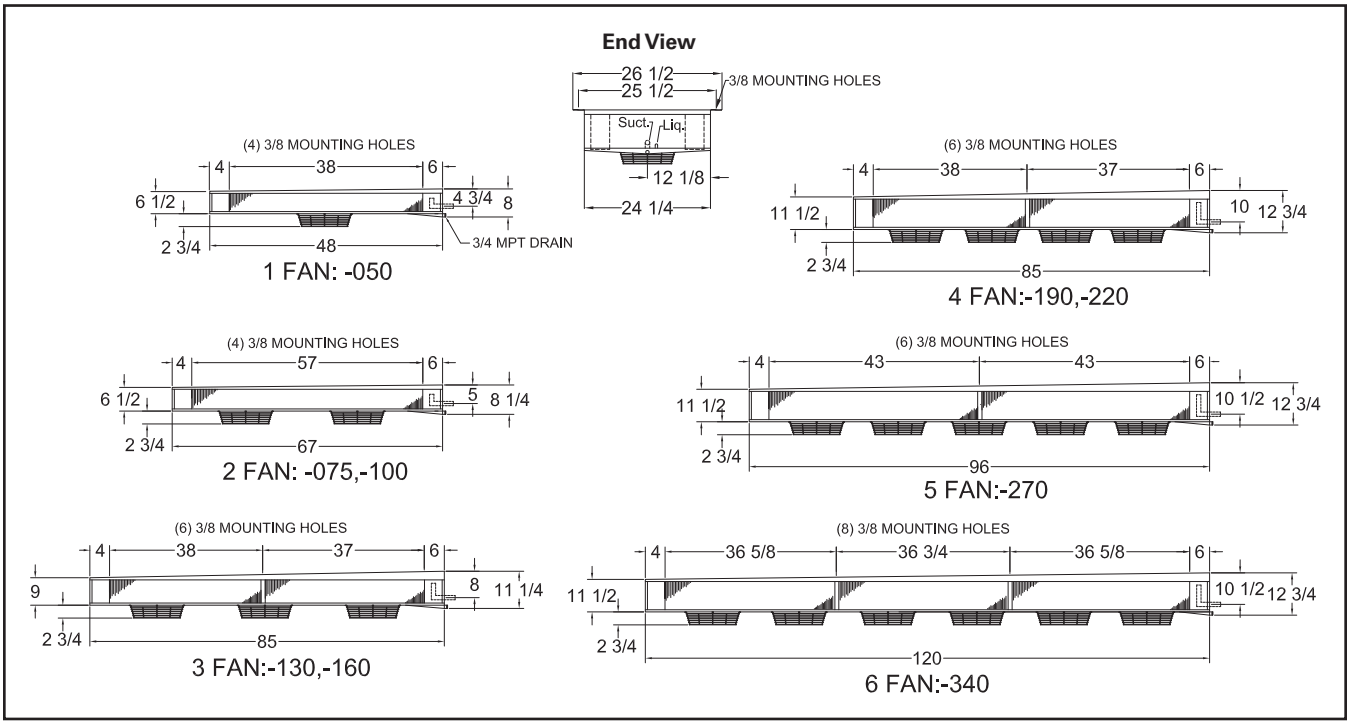
Model	Fan Data			Capacity								Charge (Lbs) 404A	Suction Conn. OD (inches)	Unit Weight (lbs.)
	No	CFM	m³/hr	10°F TD	5.6°C TD	15°F TD	8.3°C TD	50-55°F DB 55% RH, 20° TD		10.0-12.8°C DB 55% RH, 11.1° TD				
								Total	Sensible	Total	Sensible			
				Btuh	Watts	Btuh	Watts	Btuh	Btuh	Watts	Watts			
RWF050	1	580	990	5,000	1,470	7,500	2,200	10,000	9,200	2,930	2,690	1.2	1 1/8	50
RWF075	2	850	1,440	7,500	2,200	11,250	3,300	15,000	13,800	4,390	4,040	2.3	1 1/8	75
RWF100	2	1,110	1,890	10,000	2,930	15,000	4,390	20,000	18,400	5,860	5,390	2.5	1 1/8	75
RWF130	3	1,750	2,970	13,000	3,810	19,500	5,710	26,000	23,920	7,610	7,000	3.4	1 1/8	100
RWF160	3	1,720	2,922	16,000	4,690	24,000	7,030	32,000	29,440	9,370	8,620	4.6	1 1/8	110
RWF190	4	2,330	3,960	19,000	5,560	28,500	8,350	38,000	34,960	11,130	10,240	4.6	1 1/8	120
RWF220	4	2,290	3,890	22,000	6,440	33,000	9,660	44,000	40,480	12,880	11,850	6.1	1 1/8	130
RWF270	5	2,840	4,830	27,000	7,910	40,500	11,860	54,000	49,680	15,810	15,810	7.0	1 1/8	150
RWF340	6	3,430	5,830	34,000	9,960	51,000	14,930	68,000	62,560	19,910	18,320	9.0	1 1/8	180

50 Hz Capacity Data*

Model	Fan Data			Capacity								Charge (Lbs) 404A	Suction Conn. OD (inches)	Unit Weight (lbs.)
	No	CFM	m³/hr	10°F TD	5.6°C TD	15°F TD	8.3°C TD	50-55°F DB 55% RH, 20° TD		10.0-12.8°C DB 55% RH, 11.1° TD				
								Total	Sensible	Total	Sensible			
				Btuh	Watts	Btuh	Watts	Btuh	Btuh	Watts	Watts			
RWF050	1	480	820	4,600	1,350	6,900	2,000	9,200	8,460	2,700	2,480	1.2	1 1/8	50
RWF075	2	710	1,200	6,900	2,020	10,350	3,040	13,800	12,700	4,040	3,720	2.3	1 1/8	75
RWF100	2	920	1,570	9,200	2,700	13,800	4,040	18,400	16,930	5,390	4,960	2.5	1 1/8	75
RWF130	3	1,460	2,470	12,000	3,510	17,900	5,250	23,900	22,010	7,000	6,440	3.4	1 1/8	100
RWF160	3	1,430	2,430	14,700	4,320	22,100	6,470	29,400	27,090	8,620	7,930	4.6	1 1/8	110
RWF190	4	1,930	3,290	17,000	5,120	26,200	7,680	35,000	32,160	10,240	9,420	4.6	1 1/8	120
RWF220	4	1,900	3,230	20,000	5,930	30,400	8,890	40,500	37,240	11,850	10,900	6.1	1 1/8	130
RWF270	5	2,360	4,010	25,000	7,280	37,300	10,910	49,700	45,710	14,550	14,550	7.0	1 1/8	150
RWF340	6	2,850	4,840	31,000	9,160	46,900	13,740	62,600	57,560	18,320	16,850	9.0	1 1/8	180

*Use 60 Hz capacity and airflow values for units with EC motors

Dimensional Data



* All dimensions are in inches.

FLOW-TEMP

Electrical Data

Models 60HZ	Number of Fans	EC Motors				PSC Motors						SP Motors			
		115/1/60		208-230/1/60		115/1/60		208-230/1/60		460/1/60		115/1/60		208-230/1/60	
		Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
RWF050	1	0.6	35	0.3	35	0.4	50	0.3	50	0.2	50	1.2	75	0.5	75
RWF075	2	1.2	70	0.6	70	0.8	100	0.6	100	0.3	100	2.4	150	1.0	150
RWF100	2	1.2	70	0.6	70	0.8	100	0.6	100	0.3	100	2.4	150	1.0	150
RWF130	3	1.8	105	0.9	105	1.2	150	0.9	150	0.5	150	3.6	225	1.5	225
RWF160	3	1.8	105	0.9	105	1.2	150	0.9	150	0.5	150	3.6	225	1.5	225
RWF190	4	2.4	140	1.2	140	1.6	200	1.2	200	0.6	200	4.8	300	2.0	300
RWF220	4	2.4	140	1.2	140	1.6	200	1.2	200	0.6	200	4.8	300	2.0	300
RWF270	5	3.0	175	1.5	175	2.0	250	1.5	250	0.8	250	6.0	375	2.5	375
RWF340	6	3.6	210	1.8	210	2.4	300	1.8	300	0.9	300	7.2	375	3.0	375

Models 50HZ	Number of Fans	EC Motors				PSC Motors						SP Motors			
		100/1/50		200-220/1/50		100/1/50		200-220/1/50		380/1/50		100/1/50		200-220/1/50	
		Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
RWF050	1	0.6	35	0.3	35	0.4	45	0.3	45	0.2	45	1.1	70	0.5	70
RWF075	2	1.2	70	0.6	70	0.7	90	0.5	90	0.3	90	2.2	135	0.9	135
RWF100	2	1.2	70	0.6	70	0.7	90	0.5	90	0.3	90	2.2	135	0.9	135
RWF130	3	1.8	105	0.9	105	1.1	135	0.8	135	0.5	135	3.2	205	1.4	205
RWF160	3	1.8	105	0.9	105	1.1	135	0.8	135	0.5	135	3.2	205	1.4	205
RWF190	4	2.4	140	1.2	140	1.4	180	1.1	180	0.5	180	4.3	270	1.8	270
RWF220	4	2.4	140	1.2	140	1.4	180	1.1	180	0.5	180	4.3	270	1.8	270
RWF270	5	3.0	175	1.5	175	1.8	225	1.4	225	0.7	225	5.4	340	2.3	340
RWF340	6	3.6	210	1.8	210	2.2	270	1.6	270	0.8	270	6.5	340	2.7	340

Models	Defrost Heaters								Optional Drain Pan Heater for Hot Gas				Re-Evap HEA 10°F TD	Re-Evap HEA 15°F TD
	230/1/60		460/1/60		220/1/50		380/1/50		115/1/60		208-230/1/60			
	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts		
RWF050	4.3	1,000	2.2	1,000	4.2	915	1.8	680	2.2	250	2.0	225	HEA 1A	HEA 2A
RWF075	4.3	1,000	2.2	1,000	4.2	915	1.8	680	2.2	250	2.0	225	HEA 2A	HEA 2A
RWF100	4.3	1,000	2.2	1,000	4.2	915	1.8	680	2.2	250	2.0	225	HEA 2A	HEA 3A
RWF130	10.4	2,400	5.2	2,400	10.0	2,200	4.3	1,640	5.2	600	4.7	540	HEA 3A	HEA 3A
RWF160	10.4	2,400	5.2	2,400	10.0	2,200	4.3	1,640	5.2	600	4.7	540	HEA 3A	HEA 3A
RWF190	10.4	2,400	5.2	2,400	10.0	2,200	4.3	1,640	5.2	600	4.7	540	HEA 3A	HEA 4A
RWF220	10.4	2,400	5.2	2,400	10.0	2,200	4.3	1,640	5.2	600	4.7	540	HEA 3A	HEA 4A
RWF270	17.4	4,000	8.7	4,000	16.6	3,660	6.5	2,460	8.7	1,000	7.8	900	HEA 4A	HEA 5A
RWF340	21.7	5,000	10.9	5,000	20.8	4,570	8.1	3,070	10.9	1,250	7.8	900	HEA 4A	HEA 5A

NOTE: HEA = Heat Exchanger / Accumulator for Hot Gas Re-Evap systems only. Shipped loose for field installation.

Due to continuing product development, specifications are subject to change without notice.