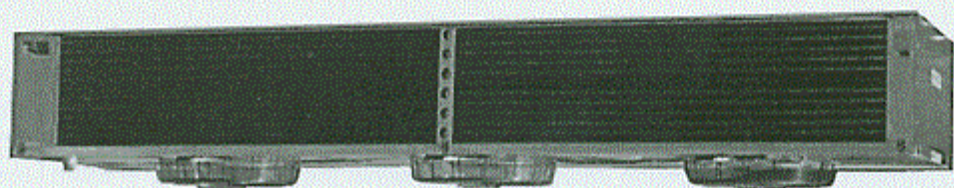




# FV Series

Flush Mount - Low Velocity  
Unit Coolers



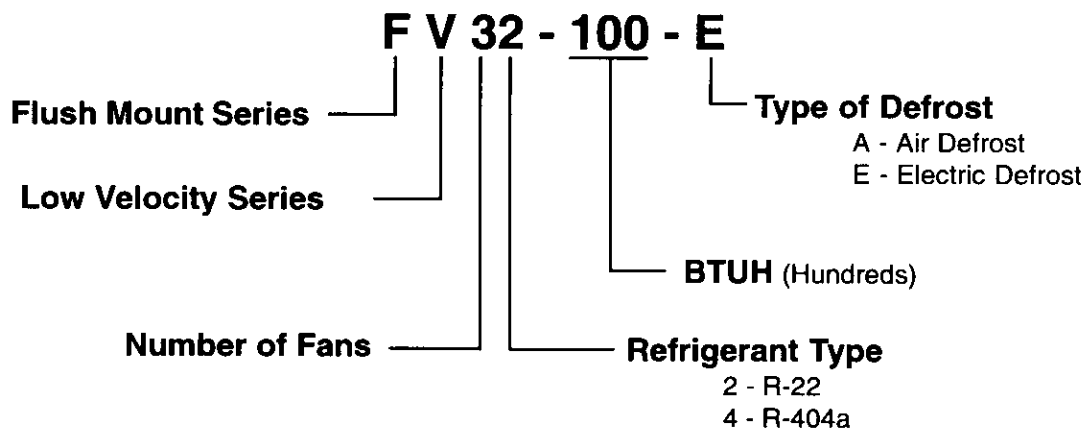
## Air or Electric Defrost

- 5,000 to 33,000 BTUH
- 950 to 4500 CFM





# NOMENCLATURE



## STANDARD CONSTRUCTION

**Cabinet:** Heavy gauge, rustproof smooth finish aluminum housing. All hardware is corrosion resistant. Full die-formed venturis minimize noise with maximum air throw. Fan guards are heavy gauge wire basket type coated for corrosion resistance. Units mounts flush to the ceiling for ease of wash down, no difficult areas above the unit to clean.

**Coil:** Copper tube, aluminum plate full collared die-formed fins and tube sheets. Tubes are mechanically expanded for maximum heat transfer. Coils are leak tested at 175 PSIG under water. Flare connection type distributors are supplied with removable nozzles. Each nozzle is sized for the specified refrigerant and temperature range. All coils require external equalized expansion valve. Expansion valve is located within the cabinet. On electric defrost models, the expansion valve compartment is heated during the defrost cycle.

**Motors:** Permanently lubricated, suitable for low temperature applications. All motors are thermally protected, 1550 RPM.

**Fans:** Heavy duty aluminum blades, statically and dynamically balanced for smooth operation. Selected for quiet operation with maximum air throw.

**Refrigerants:** All coils are designed for use with refrigerants R-22 and R-404a. Specify which refrigerant when ordering.

**Electrical:** Factory prewired to terminal blocks located on end of unit. Consult specifications for electrical requirements. See appropriate diagram for internal wiring schematic.

**Defrost:** Standard unit is suitable for air defrost applications (above 32° F room). Electric defrost models (below 32° F room ) are available. Removable, low watt density resistance heaters, prewired with termination and fan delay controls.

**Drain Pan:** Drain pans are hinged for ease of access and cleaning.

## APPLICATIONS

- Meat Cutting / Prep Rooms
- Holding / Packaging Rooms
- Florist Boxes
- High Humidity - Low TD

## FEATURES

- Low Air Velocity
- Two Way Air Throw
- Prewired, Thermal Protected Motors
- Ceiling flush mount design
- Hinged drain pan

## OPTIONS

- High Efficiency PSC Motors
- Electric Defrost
- Insulated Drain Pans

# SPECIFICATION DATA

Model <sup>1</sup>	Capacity (BTUH) at 10° TD <sup>2</sup>								CFM	Fan Motor Amperage <sup>3</sup>		Electric Defrost <sup>4</sup>		
	Saturated Suction Temperature (° F)									115v	230v	Watts	Amperage 1 Phase	
	15°	20°	25°	30°	35°	40°	45°	50°					230v	460v
FV 20-50	5,363	5,450	5,553	5,655	5,875	6,095	6,208	6,320	950	4.4	2.2	3,000	13.0	6.5
FV 20-74	7,937	8,066	8,218	8,369	8,695	9,021	9,187	9,354	1,200	4.4	2.2	3,000	13.0	6.5
FV 30-100	10,725	10,900	11,105	11,310	11,750	12,190	12,415	12,640	1,825	6.6	3.3	4,000	17.4	8.7
FV 30-135	14,479	14,715	14,992	15,269	15,863	16,457	16,760	17,064	2,175	6.6	3.3	4,000	17.4	8.7
FV 40-195	20,914	21,255	21,655	22,055	22,913	23,771	24,209	24,648	3,390	8.8	4.4	5,000	21.7	10.9
FV 40-275	29,494	29,975	30,539	31,103	32,313	33,523	34,141	34,760	4,500	8.8	4.4	6,000	26.0	13.0

<sup>1</sup> - All models require external equalized thermostatic expansion valve

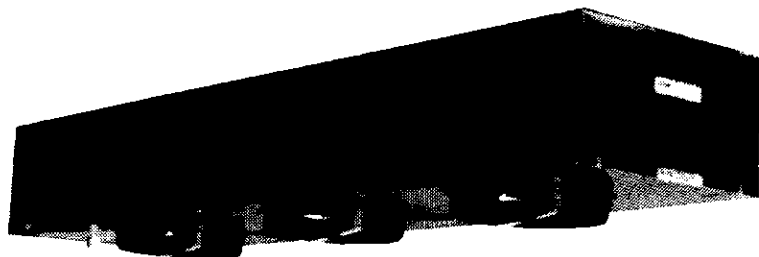
<sup>2</sup> - To determine capacities at other TDs, divide capacities shown by 10 and then multiply by the desired TD.

<sup>3</sup> - All models utilize 1/20 HP fan motor(s)

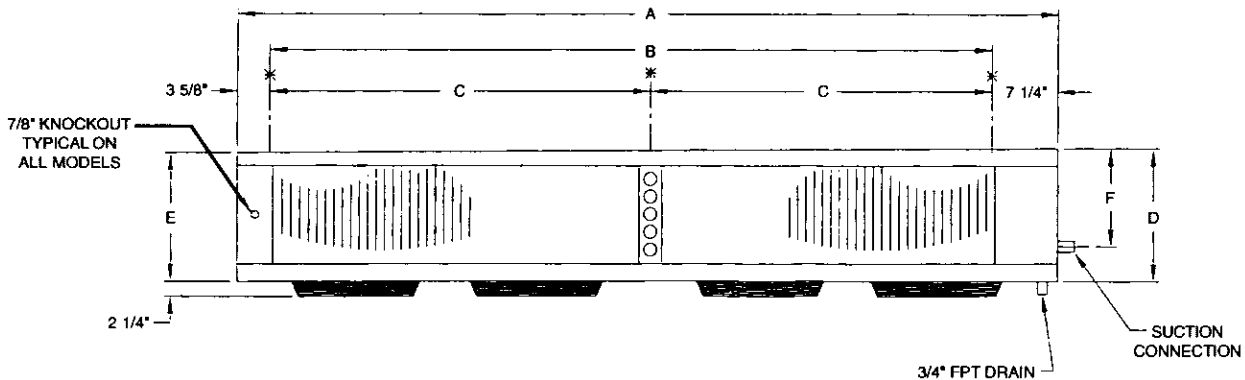
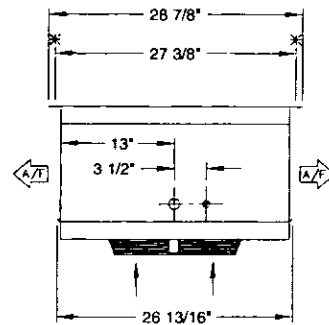
<sup>4</sup> - Consult factory for applications below +25°F room temperature.

## When Ordering Please Specify:

- Complete Model Number
- Room Temperature
- Unit Voltage
- Design TD (entering air to refrigerant)
- Refrigerant Type (R-22, R-404a)
- Saturated Suction Temperature
- Defrost Type



# PHYSICAL DATA



Model	Fans Qty / Size	Qty Hangers	Dimensions						Connections		Approx. Shipping Weight
			A	B	C	D	E	F	Liquid	Suction	
FV 20-50	2 / 12"	2	58"	47"	--	9"	8 1/2"	5 3/4"	1/2" FN	7/8" ODS	160 lbs
FV 20-74	2 / 12"	2	58"	47"	--	10 1/2"	10"	7 1/4"	1/2" FN	7/8" ODS	190 lbs
FV 30-100	3 / 12"	3	82"	71"	35 1/2"	10 1/2"	10"	7 1/4"	1/2" FN	1 1/8" ODS	230 lbs
FV 30-135	3 / 12"	3	82"	71"	35 1/2"	12"	11 1/2"	8 3/4"	1/2" FN	1 1/8" ODS	270 lbs
FV 40-195	4 / 12"	3	102"	91"	45 1/2"	12"	11 1/2"	8 3/4"	1/2" FN	1 1/8" ODS	310 lbs
FV 40-275	4 / 12"	3	102"	91"	45 1/2"	15"	14 1/2"	11 3/4"	1/2" FN	1 3/8" ODS	370 lbs

Continual engineering and research for product improvement may result in design and specification changes. Consult the factory for certified equipment drawings.

