

CSA Series

CSA Medium Silhouette Air Defrost

The CSA unit cooler is ideal for meat, produce, fish or dairy storage walk in coolers in warehouses and supermarkets where temperatures of +35°F or higher are required.

The draw-thru air flow design coupled with fin spacing of 6 per inch assures uniform air distribution.

Removable end panels allow easy access to refrigerant connections. There is ample room within the end compartment for mounting the expansion valve.

CSA unit coolers are designed in modular fashion allowing interchangeability of fan guards and motors on all units.



Features:

LONG LIFE AND RELIABILITY

- 6 FPI
- Available with PSC or EC motors
- Motor bearings are lubricated for the life of the motor
- Motors have built-in overload protection
- Coils constructed of Copper tubes and Aluminum fins

QUALITY

- Fans and motors are specially selected for quietness
- UL Listed
- Coils tested, dehydrated and sealed at the factory
- Fan guards exceed OSHA requirements

SERVICEABILITY

- Removable end panels for easy access
- Separate fixed defrost and fan delay control factory wired and mounted for optimum performance of each control



Nomenclature:

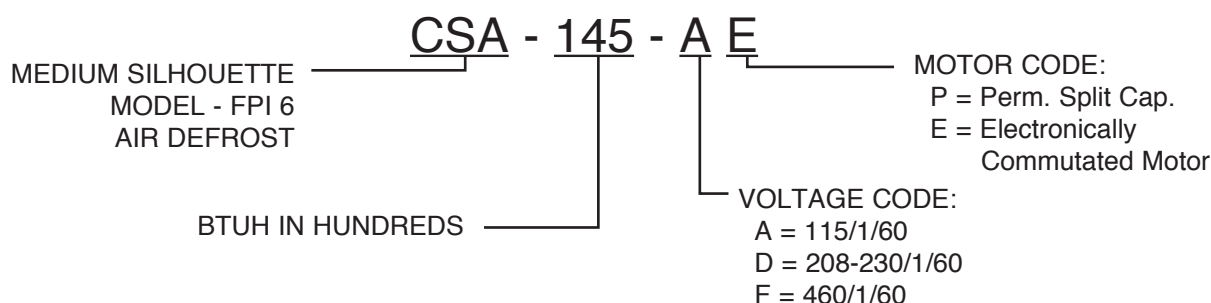


Fig. 1

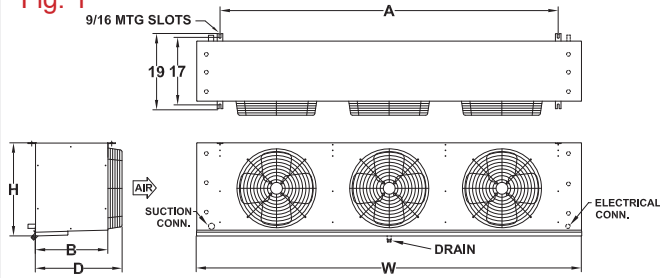
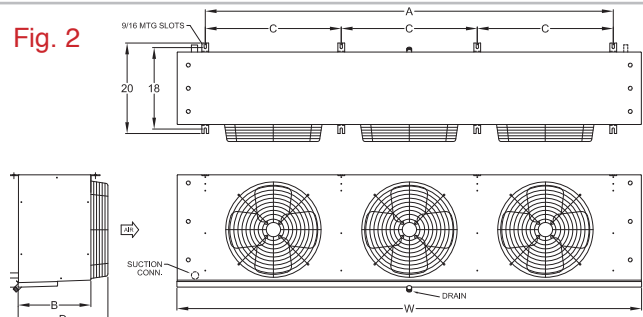


Fig. 2



Capacity and Physical Data

MODEL	BTU/HR @ 10 T.D. (1) EVAPORATOR TEMP.			CFM	FITTINGS - (OD)		REFR CHARGE (3)	DRAIN MPT. (IN)	HEAT EXCH. (OPTIONAL)	APPROX. NET WT. (LBS)
	+25°F (2)	+30°F (2)	+40°F		SUCTION OUTLET	LIQUID OUTLET				
CSA-145	14,500	14,900	15,700	3680	7/8	1/2	2.5	3/4	HX-150	120
CSA-191	19,100	19,600	20,600	3470	7/8	1/2	3.4	3/4	HX-150	140
CSA-240	24,000	24,700	26,000	5510	7/8	1/2	3.7	3/4	HX-150	290
CSA-305	30,500	31,400	33,100	4960	1 1/8	1/2	6.1	3/4	HX-250	320
CSA-370	37,000	38,100	40,100	5460	1 1/8	7/8	7.8	3/4	HX-250	360
CSA-415	41,500	42,700	45,000	8620	1 1/8	7/8	8.4	3/4	HX-250	395
CSA-490	49,000	50,500	53,200	8580	1 3/8	7/8	9.2	3/4	HX-250	415
CSA-620	62,000	63,900	67,300	7770	1 3/8	7/8	13.7	3/4	HX-350	520

(1) T.D. is the difference between the box temperature and the refrigerant temperature.

(2) Frosting conditions

(3) Refrigerant charge is based on LBS of R22

Electrical and Physical Data

MODEL	MOTORS (4)		WATTS per MOTOR		TOTAL MOTOR AMPS						DIMENSIONS (INCHES)						
	NO.	H.P.	PSC	ECM	115/1/60		230/1/60		460/1/60		FIG.	H	W	D	A	B	C
CSA-145	2	1/8	141	70	4.0	2.4	1.8	1.2	0.9	N/A	1	19	55	18-3/4	42	15	—
CSA-191	2	1/8	141	70	4.0	2.4	1.8	1.2	0.9	N/A	1	19	55	18-3/4	42	15	—
CSA-240	3	1/8	141	70	6.0	3.6	2.7	1.8	1.4	N/A	1	19	76	18-3/4	63	15	—
CSA-305	3	1/8	141	70	6.0	3.6	2.7	1.8	1.4	N/A	1	19	76	18-3/4	63	15	—
CSA-370	2	1/3	357	225	14.2	6.0	6.4	4.2	2.6	N/A	2	25	76	20	63	16	—
CSA-415	3	1/3	357	225	21.3	9.0	9.6	6.3	3.9	N/A	2	25	106	20	63	16	31
CSA-490	3	1/3	357	225	21.3	9.0	9.6	6.3	3.9	N/A	2	25	106	20	93	16	31
CSA-620	3	1/3	357	225	21.3	9.0	9.6	6.3	3.9	N/A	2	25	106	20	93	16	31

(4) Motors are high efficiency Permanent Split Capacitor (PSC) or Electronically Commutated (EC) motors with built in thermal overload protection.

Achieved by Changing to More Efficient Unit Cooler Motors
(Based on Energy Cost of \$0.10 per kWh)

Energy Savings per Motor

Motor HP and RPM	Standard PSC Motor Input Power Watts/Mtr	Optional EC Motor Input Power Watts/Mtr	Reduced Power Consumption Watts/Mtr	Run Time Hrs/Day	Motor Energy Savings kWh/Yr	Motor Energy Savings \$/Yr	Reduced Box Load MBTU/Yr	Cond. Unit Energy Savings kWh/Yr	Cond. Unit Energy Savings \$/Yr	Yearly Savings \$/Motor	Pay- back Yrs
1/8 – 1075	141	70	71	22	570	57	1,945	374	\$37	\$94	1.5
1/3 – 1075	357	225	132	22	1060	106	3,617	695	\$70	\$176	0.9

Specifications are subject to change without notice.