

## DSA Series

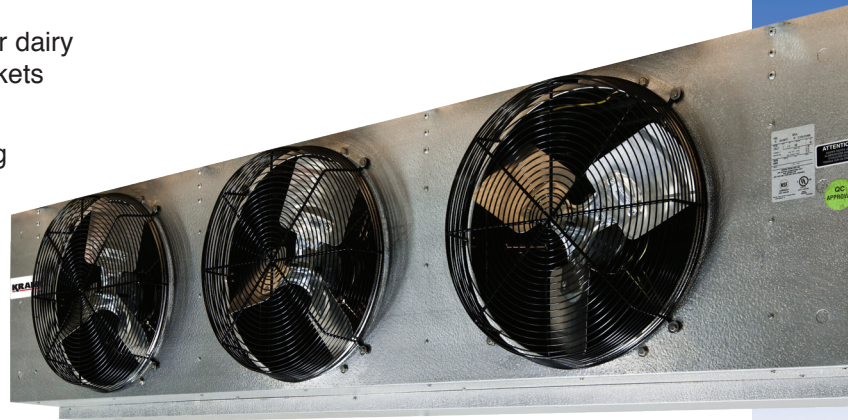
### DSA Medium Silhouette Air Defrost

The DSA 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 8 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.

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



#### Features:

##### LONG LIFE AND RELIABILITY

- 8 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

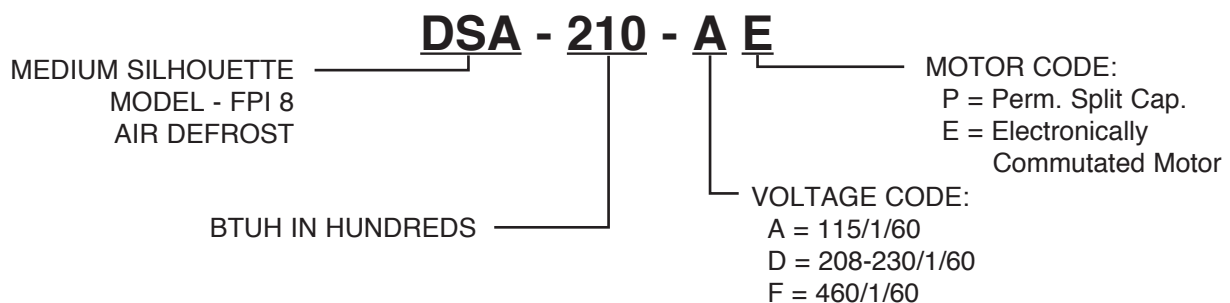
##### QUALITY

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

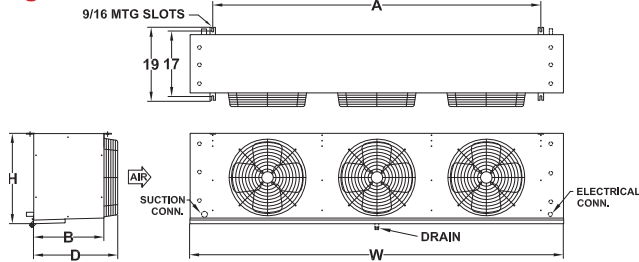
##### SERVICEABILITY

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

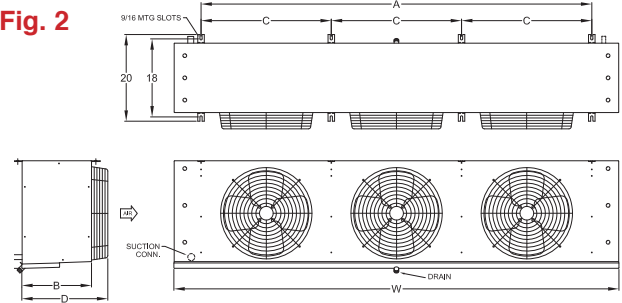
#### Nomenclature:



**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				
DSA-151	15,100	15,600	16,400	3530	7/8	1/2	2.5	3/4	HX-150	125
DSA-210	21,000	21,600	22,800	3320	7/8	1/2	3.4	3/4	HX-150	145
DSA-260	26,000	26,800	28,200	5300	7/8	1/2	3.7	3/4	HX-150	295
DSA-320	32,000	33,000	34,700	4750	1 1/8	1/2	6.1	3/4	HX-250	330
DSA-410	41,000	42,200	44,500	5250	1 1/8	7/8	7.8	3/4	HX-250	370
DSA-450	45,000	46,400	48,800	8620	1 3/8	7/8	8.4	3/4	HX-250	390
DSA-540	54,000	55,600	58,600	8250	1 3/8	7/8	9.2	3/4	HX-350	430
DSA-690	69,000	71,100	74,900	7470	1 3/8	7/8	13.7	3/4	HX-350	540

(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
DSA-151	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	—
DSA-210	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	—
DSA-260	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	—
DSA-320	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	—
DSA-410	2	1/3	357	225	14.2	6.0	6.4	4.2	2.6	N/A	2	25	76	20	63	16	—
DSA-450	3	1/3	357	225	21.3	9.0	9.6	6.3	3.9	N/A	2	25	106	20	63	16	31
DSA-540	3	1/3	357	225	21.3	9.0	9.6	6.3	3.9	N/A	2	25	106	20	93	16	31
DSA-690	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.