

EDH AND EDHS SERIES ELECTRIC DUCT HEATERS

DCA (EDH and EDHS series) electric duct heaters are engineered to provide additional room heating for all DCA dehumidification systems. These heaters provide an economical means to provide supplemental room heating.

The duct heater shown on the right is for direct mounting only and not downstream applications. Slip-in (EDHS) duct heater applications are available. They are shipped unattached for on-site installation. A single high voltage power source, separate from the dehumidifier connection, and a low voltage connection are all that is required - allowing for an easy installation.



Every heater is shipped complete with air flow pressure switches, high limit controls and fuse blocks. The optional two-stage thermostat ties in with the 24-volt circuitry of any DCA dehumidifier. DCA also offers a

complete line of gas fired in-line duct furnaces where these units may be desired.

All DCA electric duct heaters carry a one-year parts warranty.

STANDARD DCA FEATURES

- **MAGNETIC CONTACTORS**
- **AUTOMATIC HIGH LIMIT SWITCH**
- **AIRFLOW PRESSURE SWITCH**
- **24V TRANSFORMER**
- **PILOT RELAY**
- **STAGING AS REQUIRED FOR EACH 47 AMP CIRCUIT**
- **TIME DELAY BETWEEN STAGES**
- **SINGLE POINT POWER CONNECTION TO TERMINAL BLOCK**
- **LOW VOLTAGE TERMINAL STRIP**
- **GROUNDING LUG**
- **WELDING CONSTRUCTION USING 20 MSG GALVANIZED STEEL**
- **HINGED COVER**
- **WIRING DIAGRAM**
- **FUSED CIRCUITS PER N.E.C., U.L. AND CSA**
- **ARL LISTED (BUILT TO CONFORM TO U.L. AND N.E.C. REQUIREMENTS)**
- **STRAIGHT FLANGE TO FIT UNIT DISCHARGE**
- **GRADE AA CHROMEL CORROSION-RESISTANT ELEMENT***
- **SLIP IN DUCT HEATERS AVAILABLE**
- **DOWNFLOW DUCT HEATERS AVAILABLE (IN EDHS ONLY)**
- **SLIP IN DUCT, FINNED TUBULAR HEATERS ALSO AVAILABLE - CONTACT FACTORY**

*For use with corrosive environments such as indoor swimming pool enclosures, chemical plants and water/wastewater treatment facilities.

HORIZONTAL AND UPFLOW ONLY; (CONSULT FACTORY FOR DOWNFLOW APPLICATIONS)

DEHUMIDIFIER MODEL #	DEHUMIDIFIER HEATING CAPACITY AT 82° & 50% HR	ADD ON ELECTRIC HEAT CAPACITY		BLOWER OUTLET CONNECTION WxH (inches)	TOTAL HEATING CAPACITY BTUH
		KW	BTUH		
DCA 650T/650TWH	10,946	4	13,656	9.25" x 10.25"	24,602
DCA 900T/900TWH	15,496	7	23,898	13.25" x 11.375"	39,394
DCA 1500T/1500TWH	25,256	13	44,382	13.25" x 11.375"	69,638
DCA 2000T/2000TWH	31,058	15	51,210	15.625" x 13.5"	82,268
DCA 2500T/2500TWH	43,192	20	68,280	15.625" x 13.5"	111,472
DCA 3000T/3000TWH	43,192	30	102,420	18.625" x 16"	145,612
DCA 3300T/3300TWH	53,742	30	102,420	18.625" x 16"	156,162
DCA 3500T/3500TWH	61,326	20	68,280	18.625" x 16"	129,606
DCA 3600T/3600TWH	61,985	30	102,420	18.625" x 16"	164,405
DCA 4100T/4100TWH	69,898	40	136,560	18.625" x 16"	206,458
DCA 4400T/4400TWH	76,492	20	68,280	18.625" x 16"	144,772
DCA 4800T/4800TWH	82,427	40	136,560	18.625" x 16"	218,987
DCA 5500T/5500TWH	93,637	50	170,700	18.625" x 16"	264,337

NOTE: Above specifications for all DCA series Air-Cooled & Water-Cooled units.

DUCT HEATER CURRENT DRAW (AMPS)

DEHUMIDIFIER MODEL#	KW	220/1	208/3	230/3	460/3	575/3
DCA 650T/650TWH	4	18.18	NA	NA	NA	NA
DCA 900T/900TWH	7	31.82	19.43	17.57	8.79	7.03
DCA 1500T/1500TWH	13	59.09	36.09	32.63	16.32	13.05
DCA 2000T/2000TWH	15	68.18	41.64	37.65	18.83	15.06
DCA 2500T/2500TWH	20	90.91	55.52	50.21	25.10	20.08
DCA 3000T/3000TWH	30	136.36	83.27	75.31	37.65	30.12
DCA 3300T/3300TWH	30	NA	83.27	75.31	37.65	30.12
DCA 3500T/3500TWH	20	90.91	NA	NA	NA	NA
DCA 3600T/3600TWH	30	NA	83.27	75.31	37.65	30.12
DCA 4100T/4100TWH	40	NA	111.03	100.41	50.21	40.16
DCA 4400T/4400TWH	20	90.91	NA	NA	NA	NA
DCA 4800T/4800TWH	40	NA	111.03	100.41	50.21	40.16
DCA 5500T/5500TWH	50	NA	138.79	125.51	62.76	50.21

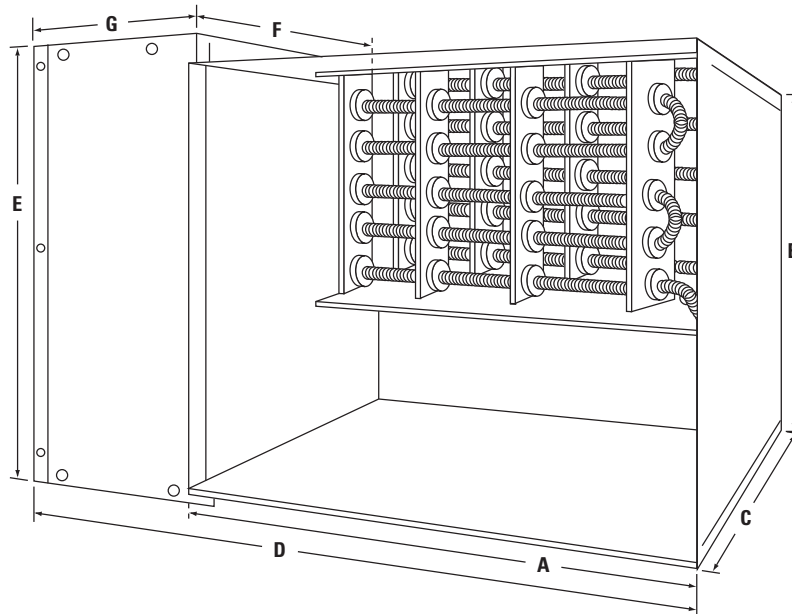
NOTE: (1) Control Voltage for above -24 volts

(2) Above specifications for all DCA series Air-Cooled & Water-Cooled units

(3) Above duct heaters can be ordered with less KW than listed, for each model if needed

EDH AND EDHS SERIES ELECTRIC DUCT HEATERS

DIAGRAMS



DIMENSIONS IN INCHES

DEHUMIDIFIER MODEL #	DUCT HEATER MODEL#	KW	SUPPLY VOLTAGE	PHASE	DIMENSIONS IN INCHES						
					A	B	C	D	E	F	G
DCA 650T/650TWH	EDH0650	4	230	1	9.25"	10.5"	16"	21.25"	12.5"	13"	12"
DCA 900T/900TWH	EDH0900	7	230	1	13.375"	11.375"	16"	25.375"	13.375"	13"	12"
DCA 1500T/1500TWH	EDH1500	13	208/230/460	3	13.375"	11.375"	16"	25.375"	13.375"	13"	12"
			230	1	13.375"	11.375"	16"	25.375"	13.375"	13"	12"
			208/230	3	13.375"	11.375"	16"	25.375"	13.375"	13"	12"
DCA 2000T/2000TWH	EDH2000	15	460/575	3	13.375"	11.375"	16"	25.375"	13.375"	13"	12"
			230	1	15.75"	13.625"	16"	27.75"	15.625"	13"	12"
			208/230	3	15.75"	13.625"	16"	27.75"	15.625"	13"	12"
DCA 2500T/2500TWH	EDH2500	20	460/575	3	15.75"	13.625"	16"	27.75"	15.625"	13"	12"
			230	1	15.75"	13.625"	16"	27.75"	15.625"	13"	12"
			208/230	3	15.75"	13.625"	16"	27.75"	15.625"	13"	12"
DCA 3000T/3000TWH	EDH3000	30	460/575	3	15.75"	13.625"	16"	27.75"	15.625"	13"	12"
			230	1	18.75"	16.125"	16"	30.75"	18.125"	13"	12"
			208/230	3	18.75"	16.125"	16"	30.75"	18.125"	13"	12"
DCA 3300T/3300TWH	EDH3300	30	460/575	3	18.75"	16.125"	16"	30.75"	18.125"	13"	12"
			208/230	3	18.75"	16.125"	16"	30.75"	18.125"	13"	12"
			460/575	3	18.75"	16.125"	16"	30.75"	18.125"	13"	12"
DCA 3500T/3500TWH	EDH3500	20	230	1	18.75"	16.125"	16"	30.75"	18.125"	13"	12"
DCA 3600T/3600TWH	EDH3600	30	208/230	3	18.75"	16.125"	16"	30.75"	18.125"	13"	12"
			460/575	3	18.75"	16.125"	16"	30.75"	18.125"	13"	12"
			460/575	3	18.75"	16.125"	16"	30.75"	18.125"	13"	12"
DCA 4100T/4100TWH	EDH4100	40	208/230	3	18.75"	16.125"	16"	30.75"	18.125"	13"	12"
			460/575	3	18.75"	16.125"	16"	30.75"	18.125"	13"	12"
			460/575	3	18.75"	16.125"	16"	30.75"	18.125"	13"	12"
DCA 4400T/4400TWH	EDH4400	20	230	1	18.75"	16.125"	16"	30.75"	18.125"	13"	12"
DCA 4800T/4800TWH	EDH4800	40	208/230	3	18.75"	16.125"	16"	30.75"	18.125"	13"	12"
			460/575	3	18.75"	16.125"	16"	30.75"	18.125"	13"	12"
			460/575	3	18.75"	16.125"	16"	30.75"	18.125"	13"	12"
DCA 5500T/5500TWH	EDH5500	50	208/230	3	18.75"	16.125"	16"	30.75"	18.125"	13"	12"
			460/575	3	18.75"	16.125"	16"	30.75"	18.125"	13"	12"

NOTE: Above duct heaters can be ordered with less KW than listed, for each model if needed.

**EDH AND EDHS SERIES
ELECTRIC DUCT HEATERS**

SLIP IN ONLY (FOR HORIZONTAL AND VERTICAL UNITS)

HORIZONTAL UNITS

DEHUMIDIFIER MODEL #	DEHUMIDIFIER HEATING CAPACITY AT 82° & 50% HR	ADD ON ELECTRIC HEAT CAPACITY		DUCT DIMENSIONS WxH (inches)	TOTAL HEATING CAPACITY BTUH
		KW	BTUH		
DCA 650T / 650TWH	10,946	4	13,656	7" x 12"	24,602
DCA 900T / 900TWH	15,496	7	23,898	14" x 11"	39,394
DCA 1500T / 1500TWH	25,256	13	44,382	14" x 14"	69,638
DCA 2000T / 2000TWH	31,058	15	51,210	21.5" x 15"	82,268
DCA 2500T / 2500TWH	43,192	20	68,280	21" x 16"	111,472
DCA 3000T / 3000TWH	43,192	30	102,420	22" x 18"	145,612
DCA 3300T / 3300TWH	53,742	30	102,420	25" x 18"	156,162
DCA 3500T / 3500TWH	61,326	20	68,280	25" x 18"	129,606
DCA 3600T / 3600TWH	61,985	30	102,420	25" x 18"	164,405
DCA 4100T / 4100TWH	69,898	40	136,560	24" x 18"	206,458
DCA 4400T / 4400TWH	76,492	20	68,280	25.5" x 19"	144,772
DCA 4800T / 4800TWH	82,427	40	136,560	28" x 19"	218,987
DCA 5500T / 5500TWH	93,637	50	170,700	29" x 22"	264,337
DCA 7000T / 7000TWH	119,354	50	170,700	36" x 24"	290,054
DCA 8000T	139,796	65	221,919	40" x 26"	361,715
DCA 9000T	164,854	75	256,060	41" x 28"	420,914
DCA 11000T	187,274	90	307,272	46" x 30"	494,546
DCA 14000	238,708	110	375,555	50" x 34"	614,263

VERTICAL UNITS

DEHUMIDIFIER MODEL #	DEHUMIDIFIER HEATING CAPACITY AT 82° & 50% HR	ADD ON ELECTRIC HEAT CAPACITY		DUCT DIMENSIONS WxH (inches)	TOTAL HEATING CAPACITY BTUH
		KW	BTUH		
DCA 650TV / 650TVWH	10,946	4	13,656	7" x 12"	24,602
DCA 900TV / 900TVWH	15,496	7	23,898	14" x 11"	39,394
DCA 1500TV / 1500TVWH	25,256	13	44,382	14" x 14"	69,638
DCA 2000TV / 2000TVWH	31,058	15	51,210	21.5" x 15"	82,268
DCA 2500TV / 2500TVWH	43,192	20	68,280	21" x 16"	111,472
DCA 3000TV / 3000TVWH	43,192	30	102,420	22" x 18"	145,612
DCA 3300TV / 3300TVWH	53,742	30	102,420	25" x 18"	156,162
DCA 3600TV / 3600TVWH	61,985	30	102,420	25" x 18"	164,405

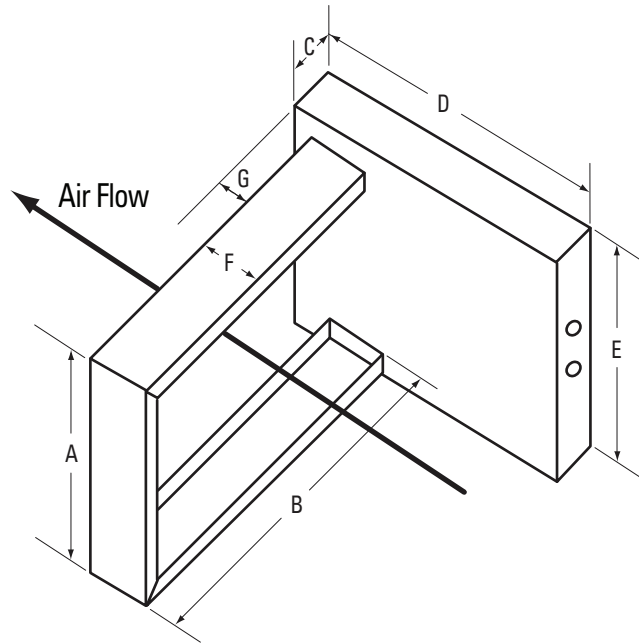
DUCT HEATER CURRENT DRAW (AMPS)

DEHUMIDIFIER MODEL#	KW	230/1	208/3	460/3
DCA 650T / 650TWH / 650TV / 650TVWH	4	17.39	NA	NA
DCA 900T / 900TWH / 900TV / 900TVWH	7	30.43	19.43	8.79
DCA 1500T / 1500TWH / 1500TV / 1500TVWH	13	56.52	36.09	16.32
DCA 2000T / 2000TWH / 2000TV / 2000TVWH	15	65.22	41.64	18.83
DCA 2500T / 2500TWH / 2500TV / 2500TVWH	20	86.96	55.52	25.10
DCA 3000T / 3000TWH / 3000TV / 3000TVWH	30	130.43	83.27	37.65
DCA 3300T / 3300TWH / 3300TV / 3300TVWH	30	130.43	83.27	37.65
DCA 3500T / 3500TWH	20	86.96	NA	NA
DCA 3600T / 3600TWH / 3600TV / 3600TVWH	30	NA	83.27	37.65
DCA 4100T / 4100TWH	40	NA	111.03	50.21
DCA 4400T / 4400TWH	20	86.96	NA	NA
DCA 4800T / 4800TWH	40	NA	111.03	50.21
DCA 5500T / 5500TWH	50	NA	138.79	62.76
DCA 7000T / 7000TWH	50	NA	138.79	62.76
DCA 8000T	65	NA	180.43	81.58
DCA 9000T	75	NA	208.19	94.14
DCA 11000T	90	NA	249.82	112.96
DCA 14000T	110	NA	305.34	138.07

NOTE: (1) Control Voltage for above -24 volts
 (2) Above specifications for all DCA series Air-Cooled & Water-Cooled units
 (3) Above duct heaters can be ordered with less KW than listed, for each model if needed

EDH AND EDHS SERIES ELECTRIC DUCT HEATERS

DIAGRAMS



DIMENSIONS IN INCHES

DEHUMIDIFIER MODEL #	DUCT HEATER MODEL#	KW	SUPPLY VOLTAGE	PHASE	DIMENSIONS IN INCHES						
					A	B	C	D	E	F	G
DCA 650T / 650TWH	EDHS0650	4	230	1	10"	6"	5.5"	24"	12"	6"	1"
DCA 900T / 900TWH	EDHS0900	7	230	1	10"	13"	5.5"	20"	11"	6"	1"
			208	3	10"	13"	5.5"	20"	11"	6"	1"
			460	3	10"	13"	5.5"	20"	11"	6"	1"
DCA 1500T / 1500TWH	EDHS1500	13	230	1	12"	13"	5.5"	26"	14"	6"	1"
			208	3	12"	13"	5.5"	24"	14"	6"	1"
			460	3	12"	13"	5.5"	24"	14"	6"	1"
DCA 2000T / 2000TWH	EDHS2000	15	230	1	13.06"	20.5"	5.5"	24"	15"	6"	1"
			208	3	13.06"	20.5"	5.5"	18"	15"	6"	1"
			460	3	13.06"	20.5"	5.5"	18"	15"	6"	1"
DCA 2500T / 2500TWH	EDHS2500	20	230	1	14.13"	20"	5.5"	20"	16"	6"	1"
			208	3	14.13"	20"	5.5"	24"	16"	6"	1"
			460	3	14.13"	20"	5.5"	18"	16"	6"	1"
DCA 3000T / 3000TWH	EDHS3000	30	230	1	16"	21"	5.5"	24"	18"	6"	1"
			208	3	16"	21"	5.5"	24"	18"	6"	1"
			460	3	16"	21"	5.5"	18"	18"	6"	1"
DCA 3300T/3300TWH	EDHS3300	30	208	3	16"	24"	5.5"	24"	18"	6"	1"
			460	3	16"	24"	5.5"	18"	18"	6"	1"
DCA 3500T/3500TWH	EDHS3500	20	230	1	16"	24"	5.5"	24"	18"	6"	1"
DCA 3600T/3600TWH	EDHS3600	30	208	3	16"	24"	5.5"	24"	18"	6"	1"
			460	3	16"	24"	5.5"	18"	18"	6"	1"
			460	3	16"	24"	5.5"	18"	18"	6"	1"
DCA 4100T/4100TWH	EDHS4100	40	208	3	16"	23"	5.5"	30"	18"	6"	1"
			460	3	16"	23"	5.5"	28"	18"	6"	1"
DCA 4400T/4400TWH	EDHS4400	40	230	1	17.06"	24.5"	5.5"	30"	19"	6"	1"
DCA 4800T/4800TWH	EDHS4800	40	208	3	17.06"	27"	5.5"	30"	19"	6"	1"
			460	3	17.06"	27"	5.5"	24"	19"	6"	1"
			460	3	20"	28"	5.5"	20"	22"	6"	1"
DCA 5500T/5500TWH	EDHS5500	50	208	3	20"	28"	5.5"	30"	22"	6"	1"
			460	3	20"	28"	5.5"	20"	22"	6"	1"
DCA 7000T/7000TWH	EDHS7000	50	208	3	22.5"	35"	5.5"	28"	24"	6"	1"
			460	3	22.5"	35"	5.5"	18"	24"	6"	1"

NOTE: Above duct heaters can be ordered with less KW than listed, per each model if needed.

EDH AND EDHS SERIES ELECTRIC DUCT HEATERS

HORIZONTAL UNITS CONTINUOUS

DEHUMIDIFIER MODEL #	DUCT HEATER MODEL#	KW	SUPPLY VOLTAGE	PHASE	DIMENSIONS IN INCHES						
					A	B	C	D	E	F	G
DCA 8000T	EDHS8000	65	208	3	24.13"	39"	5.5"	30"	26"	6"	1"
			460	3	24.13"	39"	5.5"	24"	26"	6"	1"
DCA 9000T	EDHS9000	75	208	3	26"	40"	5.5"	30"	28"	6"	1"
			460	3	26"	40"	5.5"	20"	28"	6"	1"
DCA 11000T	EDHS11000	90	208	3	28.38"	45"	5.5"	30"	30"	6"	1"
			460	3	28.38"	45"	5.5"	20"	30"	6"	1"
DCA 14000T	EDHS14000	110	208	3	33"	49"	5.5"	34"	34"	6"	1"
			460	3	33"	49"	5.5"	24"	34"	6"	1"

VERTICAL UNITS

DEHUMIDIFIER MODEL #	DUCT HEATER MODEL#	KW	SUPPLY VOLTAGE	PHASE	DIMENSIONS IN INCHES						
					A	B	C	D	E	F	G
DCA 650TV 650TWH	EDHS0650	4	230	1	10"	6"	5.5"	24"	12"	6"	1"
DCA 900TV 900TWH	EDHS0900	7	230	1	10"	13"	5.5"	20"	11"	6"	1"
			208	3	10"	13"	5.5"	20"	11"	6"	1"
			460	3	10"	13"	5.5"	20"	11"	6"	1"
DCA 1500TV / 1500TVWH	EDHS1500	13	230	1	12"	13"	5.5"	26"	14"	6"	1"
			208	3	12"	13"	5.5"	24"	14"	6"	1"
			460	3	12"	13"	5.5"	24"	14"	6"	1"
DCA 2000TV / 2000TVWH	EDHS2000	15	230	1	13.06"	20.5"	5.5"	24"	15"	6"	1"
			208	3	13.06"	20.5"	5.5"	18"	15"	6"	1"
			460	3	13.06"	20.5"	5.5"	18"	15"	6"	1"
DCA 2500TV / 2500TVWH	EDHS2500	20	230	1	14.13"	20"	5.5"	20"	16"	6"	1"
			208	3	14.13"	20"	5.5"	24"	16"	6"	1"
			460	3	14.13"	20"	5.5"	18"	16"	6"	1"
DCA 3000TV / 3000TVWH	EDHS3000	30	230	1	16"	21"	5.5"	24"	18"	6"	1"
			208	3	16"	21"	5.5"	24"	18"	6"	1"
			460	3	16"	21"	5.5"	18"	18"	6"	1"
DCA 3300TV / 3300TVWH	EDHS3300	30	208	3	16"	24"	5.5"	24"	18"	6"	1"
			460	3	16"	24"	5.5"	18"	18"	6"	1"
DCA 3600TV / 3600TVWH	EDHS3600	30	208	3	16"	24"	5.5"	24"	18"	6"	1"
			460	3	16"	24"	5.5"	18"	18"	6"	1"

NOTE: Above duct heaters can be ordered with less KW than listed, per each model if needed.