



DDHA

Direct Drive Air Handling Unit
2,000-8,000 CFM 50 Hz

TRANE
TECHNOLOGIES



DDHA – Air handling Unit with direct drive motor

AHU with direct drive fan motor specially designed for free blow or short duct application to meet market requirement with low noise and smooth operation. Easy control and operate the AHU without the need of AHU starter.

Unit Casing

Units casing is constructed of zinc coated, heavy gauge, galvanized steel. Exterior surface is cleaned, phosphatized and finished with a polyester powder painted and weather resistant baked enamel finish. Casing is complete insulated with fire-retardant, permanent, odorless polyethylene foam.



DDHA Unit



Direct Drive Motor

Fans

Fans are double width, double inlet, multiblades centrifugal type. All fans are statically and dynamically balanced and tested from factory.

Coils

Configured aluminum fin surface is mechanically bonded to internally enhanced copper tubing with factory pressure and leak tested at 380 psig. Coil is arranged for draw trough airflow and shall provide full condensate drain pan constructed of galvanized steel with enough insulation thickness to prevent condensation.

Fan Motor

3-speed fan motor with direct drive type is provided for ease of control and operation. Thermostat with

control desired fan speed at high, medium or low speed.

Trane Thermostat (Option)

Digital room thermostat with 3 speeds fan adjustment and ON/OFF switch. Temperature setting can be adjusted from 18-30 °C with 7-segment LED display and auto restart function.



Product Specification

MODEL		DDHA20	DDHA25	DDHA34	DDHA40
Rated - Volts/Ph/Hz		220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
SYSTEM DATA					
Nominal Airflow	CFM	2,000	2,500	3,400	4,000
Nominal Capacity	MBH	60	75	100	120
Water Inlet Connection Size	in	1 1/4	1 1/4	1 1/4	1 1/2
Water Outlet Connection Size	in	1 1/4	1 1/4	1 1/4	1 1/2
Water Connection Type		Steel Pipe - MPT			
COIL					
Fin Type		Uncoated Corrugate			
Fins per inch*					
3-Row coil		14	14	14	14
4-Row coil		12	13	14	13
Drain Connection Size	in	1	1	1	1
FAN					
Fan Type		Double Inlet Centrifugal Forward Curved Wheel			
Qty	1	1	2	2	
Drive Type		Direct Drive			
FAN MOTOR					
Motor Type		Permanent Split Capacitor			
Qty x RLA	1 x 2.02	1 x 2.82	2 x 2.02		2 x 2.19
No. of Speed	3	3	3		3
RETURN FILTER					
Filter Type		Washable Air Filter			
DIMENSION (HxWxD)					
Unit (Net)	mm	548 x 1,461 x 765	548 x 1,461 x 765	548 x 1,830 x 765	548 x 1,830 x 765
WEIGHT					
Unit (Net) 3-Row Coil	kg	87	91	137	142
Unit (Net) 4-Row Coil	kg	89	95	143	149

TC = Total Capacity, MBH
SC = Sensible Capacity, MBH
GPM = Water Flow Rate, gpm
PD = Water Pressure Drop, Ft of Water
EWT = Entering Water Temperature
WTR = Water Temperature Rise

Cooling Capacity for 3-Row Coil

EWT (F)	Unit Size	Rated AirFlow CFM	WTR (F)	Entering Air Temp - EDB/EWB (F)															
				72 / 61				74 / 63				80 / 67				84 / 71			
				TC	SC	GPM	PD	TC	SC	GPM	PD	TC	SC	GPM	PD	TC	SC	GPM	PD
45	20	2000	8	40.92	35.57	10.19	4.50	48.77	38.00	12.15	6.11	68.01	47.41	16.94	10.90	89.99	53.34	22.39	17.76
			10	35.70	33.44	7.11	2.40	42.88	35.63	8.55	3.30	61.49	44.85	12.25	6.17	82.82	50.60	16.51	10.37
			12	30.03	28.67	4.99	1.29	36.64	33.20	6.09	1.82	55.07	42.38	1.95	3.69	75.33	47.78	12.51	6.36
			15	17.59	17.36	2.34	0.35	25.21	24.82	3.35	0.64	44.87	38.63	5.97	1.74	63.75	43.62	8.47	3.21
	25	2500	8	50.02	43.67	12.46	7.06	59.28	46.55	14.77	9.49	82.33	57.94	20.51	16.83	108.50	65.05	27.02	27.31
			10	44.49	41.42	8.87	3.89	52.88	43.97	10.54	5.25	75.21	54.90	15.04	9.57	100.20	61.85	19.98	16.01
			12	38.69	36.97	6.43	2.22	46.38	41.39	7.70	3.03	67.63	52.19	11.23	5.83	91.53	58.54	15.20	9.88
			15	28.15	27.78	3.74	0.86	35.62	33.88	4.74	1.30	56.97	48.20	7.57	2.92	78.73	53.87	10.47	5.12
	34	3400	8	67.76	60.17	16.88	7.13	80.05	64.23	19.94	9.54	110.10	80.20	27.42	16.62	143.90	90.31	35.85	26.58
			10	60.00	56.92	11.96	3.90	71.31	60.57	14.21	5.26	100.30	76.03	19.94	9.48	133.20	85.88	26.54	15.62
			12	51.48	50.13	8.55	2.17	62.02	56.85	10.30	3.00	90.52	72.23	15.04	5.77	121.70	81.34	20.22	9.67
			15	25.71	25.49	3.43	0.44	44.43	44.30	5.91	1.14	75.43	66.37	10.03	2.84	104.60	74.78	13.91	5.00
40	4000	8	82.22	73.30	20.48	5.51	97.00	78.16	24.16	7.35	132.80	97.30	33.08	12.71	173.60	109.41	43.23	20.30	
		10	72.43	69.18	14.44	2.99	86.16	73.65	17.17	4.04	121.00	92.44	24.12	7.29	160.40	104.03	31.97	11.91	
		12	61.44	59.85	10.21	1.63	74.36	68.92	12.35	2.27	109.30	87.75	18.16	4.43	146.50	98.52	24.34	7.37	
		15	31.95	30.38	4.25	0.36	53.28	52.08	7.10	0.93	90.19	80.38	11.99	2.14	125.70	90.62	16.71	3.80	



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