

# DUCTED MEDIUM/ HIGH STATIC Intelligent Fan Coils

PDWC-EC  
PDWC-AC

## PRODUCT PRESENTATION

The Polar Air Medium/ High ESP Fan coil ducted ranges have been specifically designed to satisfy medium cooling capacity at medium external static pressure applications. They represent one of the most cost-effective solutions to provide a comfortable environment for both commercial and residential applications. With quiet operation, compact dimensions and low heights, these units are ideal for ceiling concealed installations even in buildings with limited ceiling spaces.

## PRODUCT RANGE

The Polar Air Medium/ High ESP Fan coil ducted units offer the following EC and AC motor 230V/50Hz ranges:

	EC Motor		AC Motor			EC Motor		AC Motor	
2 Pipe	COOLING	3.45 - 16.86 kW	HEATING	3.36 - 17.24 kW	4 Pipe	COOLING	3.00 - 16.86 kW	HEATING	3.00 - 16.86 kW
	HEATING	2.23 - 10.80 kW	COOLING	2.82 - 14.34 kW		HEATING	3.44 - 17.67 kW	COOLING	3.38 - 17.67 kW
	AIR FLOW	668 - 3642 m <sup>3</sup> /h	AIR FLOW	631 - 3668 m <sup>3</sup> /h		AIR FLOW	633 - 3651 m <sup>3</sup> /h	AIR FLOW	628 - 3668 m <sup>3</sup> /h

COOLING HEATING AIR FLOW

## PRODUCT FEATURES

**Structure.** Made from heavy-gauge galvanized steel panels with couplings for the connection of ducting and gravity drain pan with insulation for condensation. Optional fire-resistant internal NBR insulation to provide both thermal and acoustic insulation. Insulation also fitted on the top coil. Low height dimensions for perfect low height ceiling concealed installations.

**Water Coils.** Built with seamless copper tubes and headers, with the tubes mechanically expanded into corrugated aluminum fin material for a permanent primary to secondary surface bond. We test the coils at 35 bar, and the maximum operating limit we recommend is at 20 bar. It includes manual air vent and water purge valve.

**Fan Blowers.** Galvanized steel with die-formed inlet cones housings, double inlet and double width centrifugal type, statically and dynamically balanced for smooth and quiet operation.

**Condensate Pans.** Steel drain pans with powder finish positively sloped, coated with self-extinguishing closed cell expanded polyethylene with thermal properties. The drain pan outlet is 3/4" (standard on the same side of coil connections).

**Filtration.** Easily removable and washable filters made from self-extinguishing acrylic with EU2 (G2) (Merv 2-4) efficiency class. G4 (Merv 8) efficiency filters are optional.

**Performance.** Built with optimized water circuit designs and tested in accredited thermal test rooms to guarantee dependable performance and low water pressure drops. These series can supply more airflow at higher External Static Pressure (ESP), with airflow ranges varying from 578 to 3160 m<sup>3</sup>/h at medium speed at 120Pa ESP.

**Motors.** EC motors with included driven controls PCB, constant torque, permanent magnet, with 3 speeds pre-set to allow precise air balancing.

AC motors are PSC with permanently split-capacitor with ball bearing with internal thermal overload protection.

**Flexibility.** This Medium/ High Fan coil ducted range is available with left or right-hand water connections or easily exchanged on site.

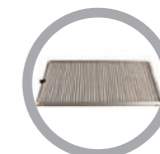
## OPTIONAL ACCESSORIES\*



Thermostat Controller



Wall Pad Controller



MERV8 | G4 Filter



Stainless steel drain pan



Electric heater module 3 - 9 kW



Valve kit 2 or 3-way 3/4" on/off or modulating

(\*): Please refer to page 146 for further information on accessories

TECHNICAL SPECIFICATIONS

Hydronic Medium/ High Static Ducted, 3 row, 2 pipe with EC Motor

UNIT GENERAL SPECS	PDWC-3R-[SIZE]-V-EC			400	500	600	800	1000	1400	1600	2000
	Configuration			2 PIPE							
	Number of Fan Blowers			1			2			4	
	Power Supply (V/Ph/Hz)			230 / 1 / 50   220/1/60							
AIR	Air Flow	H	m³/h	487	678	1128	1429	1830	2322	2694	3651
		M		264	438	872	1230	1284	1795	2047	2948
		L		213	308	489	579	621	944	1393	1713
	Available ESP Pressure	H	Pa	120							
		M		70							
		L									
COOLING	Cooling Capacity	H	kW	2.7	3.69	5.9	7.27	9.22	11.63	13.28	16.86
		M		1.66	2.61	4.86	6.49	7.01	9.52	10.82	14.29
		L		1.38	1.95	3.07	3.56	3.9	5.75	8.01	9.46
	Sensible Cooling Capacity	H	kW	1.9	2.59	4.22	5.25	6.52	8.26	9.47	12.35
		M		1.14	1.79	3.42	4.63	4.91	6.67	7.62	10.33
		L		0.96	1.34	2.11	2.47	2.73	3.93	5.54	6.68
HEATING	Heating Capacity	H	kW	2.8	3.77	6	7.24	10.32	11.92	13.84	17.67
		M		1.73	2.67	4.94	6.46	7.88	9.82	11.09	14.97
		L		1.42	1.99	3.12	3.55	4.34	5.91	8.27	9.91
	Max. Electric Heater				3			6			9
SOUND	Pressure Level	Outlet		54/50/45	56/53/43	56/54/47	58/56/47	56/52/45	59/57/47	60/58/56	64/62/52
		Inlet + Radiated		57/53/48	59/56/46	59/57/50	61/59/50	59/55/48	62/60/50	63/61/59	67/65/55
	Power Level	Outlet		54/50/45	56/53/43	56/54/47	58/56/47	56/52/45	59/57/47	60/58/56	64/62/52
		Inlet + Radiated		57/53/48	59/56/46	59/57/50	61/59/50	59/55/48	62/60/50	63/61/59	67/65/55
ELECTRICAL (Fan Motor)	Power Input <sup>1</sup> (Cooling)	H	W	152	202	195	281	310	413	477	637
		M		84	121	137	208	151	246	304	461
		L		32	34	62	65	70	72	108	142
	Power Input <sup>1</sup> (Heating)	H	W	1.32	1.75	1.7	2.45	1.35	1.8	2.1	2.76
		M		463	633	1012	1246	1580	1993	2276	2890
		L		285	448	834	1112	1202	1633	1854	2449
	Running Current		H	A	237	334	527	611	669	985	1374
HYDRONIC	Cooling Water Flow Rate	H	L/h	11	20.9	28.49	20.54	26.04	43.89	28.21	26.57
		M		4.6	11.21	20.1	16.73	15.91	30.65	19.51	19.72
		L		3.31	6.62	8.79	5.69	5.54	12.35	11.37	9.39
	Cooling Pressure Drop	H	kPa	480	645	1029	1240	1770	2044	2372	3029
		M		296	457	848	1108	1351	1683	1902	2567
		L		244	342	535	609	744	1014	1417	1700
	Heating Water Flow Rate	H	L/h	8.90	16.57	22.18	16.96	24.25	35.47	23.47	21.77
		M		3.73	8.91	15.65	13.84	14.92	24.99	15.77	16.16
		L		2.63	5.27	6.85	4.72	5.10	10.03	9.28	7.69
	Heating Pressure Drop	H	kPa	1.09	1.27	1.84	1.75	2.43	2.88	3.33	3.78
		M		8.03	14.04	15.65	13.84	14.92	24.99	15.77	16.16
		L		4.58	6.54	6.85	4.72	5.10	10.03	9.28	7.69
Water Content		L	L	1.09	1.27	1.84	1.75	2.43	2.88	3.33	3.78

TESTING CONDITIONS

Cooling mode: Return air temperature: 27°C DB / 19°C WB Inlet / outlet water temperature: 7°C / 12°C  
 Heating mode: Return air temperature: 20°C Inlet / outlet water temperature: 45°C / 40°C

<sup>1</sup> Fan motor power includes PCB power input. For High T Condition Requirements, please refer to Selection Software.

TECHNICAL SPECIFICATIONS

Hydronic Medium/ High Static Ducted, 4 row, 2 pipe with EC Motor

UNIT GENERAL SPECS	PDWC-4R-[SIZE]-V-EC			400	500	600	800	1000	1400	1600	2000
	Configuration			2 PIPE							
	Number of Fan Blowers			1			2			4	
	Power Supply (V/Ph/Hz)			230 / 1 / 50   220/1/60							
AIR	Air Flow	H	m³/h	446	643	1019	1322	1729	2244	2632	3474
		M		212	393	762	1111	1149	1681	1937	2752
		L		210	302	479	569	610	926	1377	1683
	Available ESP Pressure	H	Pa	120							
		M		60							
		L									
COOLING	Cooling Capacity	H	kW	3.22	4.53	6.94	8.84	11.15	14.05	16.60	21.60
		M		1.80	3.07	5.56	7.75	8.16	11.26	13.10	18.06
		L		1.76	2.49	3.83	4.54	4.91	7.13	10.07	12.24
	Sensible Cooling Capacity	H	kW	2.20	3.10	4.79	6.13	7.79	9.87	11.61	15.17
		M		1.22	2.05	3.79	5.32	5.59	7.78	9.01	12.49
		L		1.19	1.68	2.56	3.03	3.32	4.80	6.83	8.27
HEATING	Heating Capacity	H	kW	2.98	4.18	6.40	8.20	10.34	13.19	15.46	20.13
		M		1.67	2.83	5.12	7.19	7.56	10.57	12.21	16.83
		L		1.62	2.30	3.53	4.21	4.56	6.69	9.38	11.40
	Max. Electric Heater				3			6			9
SOUND	Pressure Level	Outlet		54/50/45	56/53/43	56/54/47	58/56/47	56/52/45	59/57/47	60/58/56	64/62/52
		Inlet + Radiated		57/53/48	59/56/46	59/57/50	61/59/50	59/55/48	62/60/50	63/61/59	67/65/55
	Power Level	Outlet		54/50/45	56/53/43	56/54/47	58/56/47	56/52/45	59/57/47	60/58/56	64/62/52
		Inlet + Radiated		57/53/48	59/56/46	59/57/50	61/59/50	59/55/48	62/60/50	63/61/59	67/65/55
ELECTRICAL (Fan Motor)	Power Input <sup>1</sup> (Cooling)	H	W	152	202	195	281	310	413	477	637
		M		84	121	137	208	151	246	304	461
		L		32	34	62	65	70	72	108	142
	Power Input <sup>1</sup> (Heating)	H	W	1.32	1.75	1.7	2.45	1.35	1.8	2.1	2.76
		M		552	776	1190	1516	1911	2409	2845	3703
		L		309	526	952	1328	1398	1930	2246	3097
	Running Current		H	A	301	427	657	778	842	1222	1726
Starting Current		H	A	55.53	112.13	100.72	83.81	136.74	76.13	113.76	201.48
HYDRONIC	Cooling Water Flow Rate	H	L/h	19.54	55.57	67.51	66.04	77.88	51.1	74.36	146.03
		M		18.65	38.27	34.58	25.24	31.27	22.43	46.25	72.46
		L		1.45	1.69	2.45	2.33	3.24	3.84	4.44	5.04
	Cooling Pressure Drop	H	kPa	1.45	1.69	2.45	2.33	3.24	3.84	4.44	5.04
		M		10.74	19.28	15.22	14.35	17.01	10.57	15.44	30.11
		L		6.06	8.92	6.56	4.8	5.92	4.25	8.79	13.73
Water Content		L	L	1.45	1.69	2.45	2.33	3.24	3.84	4.44	5.04

TESTING CONDITIONS

Cooling mode: Return air temperature: 27°C DB / 19°C WB Inlet / outlet water temperature: 7°C / 12°C  
 Heating mode: Return air temperature: 20°C Inlet / outlet water temperature: 45°C / 40°C

<sup>1</sup> Fan motor power includes PCB power input. For High T Condition Requirements, please refer to Selection Software.

### TECHNICAL SPECIFICATIONS

Hydronic Medium/ High Static Ducted, 3+1 row, (Auxiliary Heating coil), 4 pipe with EC Motor

UNIT GENERAL SPECS				PDWC-3R+1-[SIZE]-P-EC	400	500	600	800	1000	1400	1600	2000
Configuration				4 PIPE								
Number of Fan Blowers				1			2			4		
Power Supply (V/Ph/Hz)				230 / 1 / 50   220/1/60								
AIR	Air Flow	H	m³/h	446	643	1019	1322	1729	2244	2632	3474	
		M		212	393	762	1111	1149	1681	1937	2752	
		L		210	302	479	569	610	926	1377	1683	
	Available ESP Pressure	H	Pa	120								
		M		60								
		L										
COOLING	Cooling Capacity	H	kW	2.53	3.54	5.46	6.83	8.81	11.35	13.07	16.28	
		M		1.38	2.4	4.38	6.02	6.39	9.12	10.34	13.55	
		L		1.38	1.95	3.02	3.56	3.79	5.62	7.88	9.32	
	Sensible Cooling Capacity	H		1.78	2.48	3.88	4.9	6.22	8.04	9.3	11.9	
		M		0.96	1.64	3.07	4.28	4.44	6.39	7.28	9.76	
		L		0.96	1.34	2.07	2.47	2.65	3.85	5.44	6.58	
HEATING	Heating Capacity	H	kW	2.16	2.97	4.57	5.46	7.29	9.2	10.73	13.75	
		M		1.18	2.03	3.63	4.77	5.31	7.33	8.52	11.52	
		L		1.18	1.63	1.9	2.11	2.43	3.46	4.92	5.96	
SOUND	Pressure Level	Outlet	db(A)	54/50/45	56/53/43	56/54/47	58/56/47	56/52/45	59/57/47	60/58/56	64/62/52	
		Inlet + Radiated		57/53/48	59/56/46	59/57/50	61/59/50	59/55/48	62/60/50	63/61/59	67/65/55	
	Power Level	Outlet		63/59/54	65/62/52	65/63/56	67/65/56	65/61/54	68/66/56	69/67/59	73/71/61	
		Inlet + Radiated		66/62/57	68/65/55	68/66/59	70/68/59	68/64/57	71/69/59	72/70/62	76/74/64	
ELECTRICAL (Fan Motor)	Power Input¹	H	W	152	202	195	281	310	413	477	637	
		M		84	121	137	208	151	246	304	461	
		L		32	34	62	65	70	72	108	142	
	Running Current	H	A	1.32	1.76	1.7	2.44	2.7	3.59	4.15	5.54	
Starting Current	H	434		607	937	1170	1511	1946	2240	2790		
HYDRONIC	Cooling Water Flow Rate	H	L/h	237	411	750	1032	1095	1564	1773	2322	
		M		237	334	517	611	650	964	1351	1598	
		L		9.8	19.4	24.78	18.35	24.02	42.05	27.41	24.93	
	Cooling Pressure Drop	H	kPa	3.31	9.61	16.61	14.62	13.46	28.37	17.99	17.92	
		M		3.31	6.62	8.51	5.69	5.26	11.87	11.03	9.15	
		L		186	255	391	468	625	788	920	1179	
	Heating Water Flow Rate	H	L/h	101	174	311	409	455	628	730	988	
		M		101	139	163	181	208	297	421	511	
		L		10.26	20.24	8.15	11.5	24.59	13.64	20.42	35.26	
	Heating Pressure Drop	H	kPa	3.43	10.15	5.39	9	13.9	9.05	13.47	25.64	
		M		3.43	6.83	1.73	2.13	3.49	2.43	5.12	8.05	
		L		1.09	1.27	1.84	1.75	2.43	2.88	3.33	3.78	
Cooling Water Content		L	0.36	0.42	0.61	0.58	0.81	0.96	1.11	1.26		
Heating water content			0.36	0.42	0.61	0.58	0.81	0.96	1.11	1.26		

**TESTING CONDITIONS**

Cooling mode: Return air temperature: 27°C DB / 19°C WB Inlet / outlet water temperature: 7°C / 12°C  
 Heating mode: Return air temperature: 20°C Inlet / outlet water temperature: 55°C / 45°C

(1): Fan motor power includes PCB power input.

For High ΔT Condition Requirements, please refer to Selection Software.



### TECHNICAL SPECIFICATIONS

Hydronic Medium/ High Static Ducted, 3 row, 2 pipe with AC Motor

UNIT GENERAL SPECS	PDWC-3R-[SIZE]-V		400	500	600	800	1000	1400	1600	2000	
	Configuration		2 PIPE								
	Number of Fan Blowers		1	2	1	2	4				
	Power Supply (V/Ph/Hz)		230 / 1 / 50   220/1/60								
AIR	Air Flow	H	457	606	1126	1438	1845	2331	2700	3652	
		M	278	423	846	1214	1277	1782	2037	2927	
		L	237	343	355	522	910	1018	1175	1344	
	Available ESP Pressure	H	120								
		M	120								
		L	120								
COOLING	Cooling Capacity	H	2.56	3.39	5.9	7.32	9.22	11.63	13.28	16.86	
		M	1.73	2.57	4.72	6.43	6.92	9.52	10.7	14.29	
		L	1.52	2.14	2.36	3.25	5.36	6.1	6.95	7.72	
	Sensible Cooling Capacity	H	1.8	2.37	4.22	5.29	6.52	8.26	9.47	12.35	
		M	1.19	1.76	3.32	4.59	4.84	6.67	7.54	10.33	
		L	1.05	1.46	1.64	2.27	3.68	4.18	4.78	5.4	
HEATING	Heating Capacity	H	2.64	3.48	6	7.24	10.41	12.02	13.84	17.67	
		M	1.8	2.62	4.8	6.4	7.88	9.7	11.09	14.97	
		L	1.57	2.2	2.4	3.23	6.02	6.32	7.24	8.09	
	Max. Electric Heater		3			6			9		
SOUND	Pressure Level	Outlet	54/50/47	56/53/49	56/54/50	58/56/50	56/52/48	59/57/52	60/58/53	64/62/55	
		Inlet + Radiated	57/53/51	59/56/52	59/57/53	61/59/53	59/55/51	62/60/55	63/61/56	67/65/58	
	Power Level	Outlet	63/59/57	65/62/58	65/63/59	67/65/59	65/61/57	68/66/61	69/67/62	73/71/64	
		Inlet + Radiated	66/62/60	68/65/61	68/66/62	70/68/62	68/64/60	71/69/64	72/70/65	76/74/67	
ELECTRICAL (Fan Motor)	Power Input <sup>1</sup>	H	180	230	286	350	320	356	616	995	
		M	162	207	258	315	288	320	542	855	
		L	140	176	220	270	245	275	463	770	
	Running Current	H	0.78	1	1.24	1.52	1.39	1.55	2.68	4.32	
Starting Current	H	2.35	3	3.73	4.57	4.17	4.64	8.03	12.98		
HYDRONIC	Cooling Water Flow Rate	H	439	582	1012	1255	1580	1993	2276	2890	
		M	296	440	809	1102	1186	1633	1834	2449	
		L	261	367	404	558	919	1046	1191	1324	
	Cooling Pressure Drop	H	10	17.95	28.49	20.82	26.04	43.89	28.21	26.57	
		M	4.92	10.88	19.03	16.47	15.55	30.65	19.13	19.72	
		L	3.94	7.82	5.46	4.84	9.82	13.76	8.8	6.52	
	Heating Water Flow Rate	H	453	596	1029	1240	1784	2061	2372	3029	
		M	308	450	822	1098	1351	1663	1902	2567	
		L	270	376	411	554	1031	1084	1241	1387	
	Heating Pressure Drop	H	8.0	14.4	22.2	17.0	24.6	36.0	23.5	21.8	
		M	4.0	8.6	14.8	13.6	14.9	24.5	15.8	16.2	
		L	3.2	6.3	4.3	4.0	9.2	11.3	7.3	5.3	
Water Content		L	1.09	1.27	1.84	1.75	2.43	2.88	3.33	3.78	

**TESTING CONDITIONS**

Cooling mode: Return air temperature: 27°C DB / 19°C WB Inlet / outlet water temperature: 7°C / 12°C  
 Heating mode: Return air temperature: 20°C Inlet / outlet water temperature: 45°C / 40°C

(1): Fan motor power includes PCB power input.  
 For High ΔT Condition Requirements, please refer to Selection Software.

### TECHNICAL SPECIFICATIONS

Hydronic Medium/ High Static Ducted, 4 row, 2 pipe with AC Motor

UNIT GENERAL SPECS	PDWC-4R-[SIZE]-V		400	500	600	800	1000	1400	1600	2000	
	Configuration		2 PIPE								
	Number of Fan Blowers		1	2				4			
	Power Supply (V/Ph/Hz)		230 / 1 / 50   220/1/60								
AIR	Air Flow	H	417	561	1060	1405	1778	2263	2629	3539	
		M	252	394	805	1194	1222	1721	1972	2818	
		L	222	327	331	508	882	978	1132	1274	
	Available ESP Pressure	H	120								
		M	120								
		L	120								
COOLING	Cooling Capacity	H	3.07	4.04	7.16	9.19	11.41	14.16	16.60	21.93	
		M	2.08	3.07	5.81	8.12	8.55	11.49	13.37	18.42	
		L	1.85	2.67	2.84	4.15	6.68	7.39	8.6	9.9	
	Sensible Cooling Capacity	H	2.09	2.75	4.96	6.4	7.98	9.95	11.61	15.41	
		M	1.39	2.05	3.97	5.59	5.87	7.94	9.2	12.74	
		L	1.25	1.79	1.93	2.79	4.51	4.99	5.78	6.7	
SOUND	Pressure Level	Outlet	54/50/47	56/53/49	56/54/50	58/56/50	56/52/48	59/57/52	60/58/53	64/62/55	
		Inlet + Radiated	57/53/51	59/56/52	59/57/53	61/59/53	59/55/51	62/60/55	63/61/56	67/65/58	
	Power Level	Outlet	63/59/57	65/62/58	65/63/59	67/65/59	65/61/57	68/66/61	69/67/62	73/71/64	
		Inlet + Radiated	66/62/60	68/65/61	68/66/62	70/68/62	68/64/60	71/69/64	72/70/65	76/74/67	
ELECTRICAL (Fan Motor)	Power Input (Cooling) <sup>1</sup>	H	180	230	286	350	320	356	616	995	
		M	162	207	258	315	288	320	542	855	
		L	140	176	220	270	245	275	463	770	
	Running Current	H	0.78	1	1.24	1.52	1.39	1.55	2.68	4.33	
Starting Current	H	2.35	3	3.73	4.57	4.17	4.64	8.03	12.98		
HYDRONIC	Cooling Water Flow Rate	H	526	692	1228	1576	1955	2427	2845	3759	
		M	356	526	995	1392	1466	1970	2292	3157	
		L	317	458	487	711	1145	1267	1474	1697	
	Cooling Pressure Drop	H	50.9	91.2	106.6	89.9	142.4	77.2	113.8	207.0	
		M	25.2	55.6	73.1	71.9	84.8	53.0	77.1	151.2	
		L	20.44	43.41	20.17	21.46	54.36	23.94	34.84	49.48	
Water Content		L	1.45	1.69	2.45	2.33	3.24	3.84	4.44	5.04	

**TESTING CONDITIONS**

Cooling mode: Return air temperature: 27°C DB / 19°C WB Inlet / outlet water temperature: 7°C / 12°C  
 Heating mode: Return air temperature: 20°C Inlet / outlet water temperature: 45°C / 40°C

(1): Fan motor power includes PCB power input.  
 For High ΔT Condition and Hot Water Requirements, please refer to Selection Software.

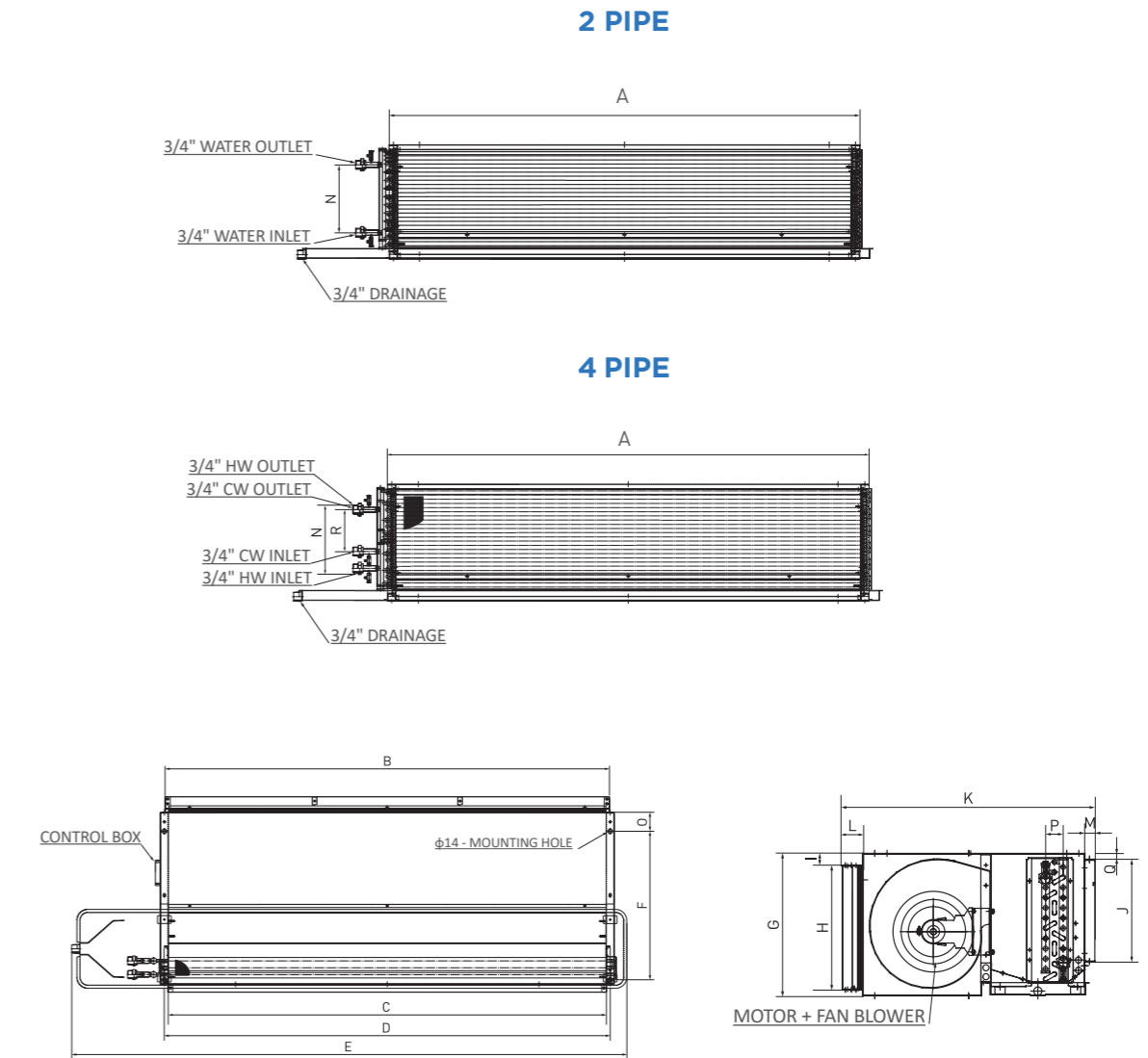


TECHNICAL SPECIFICATIONS

Hydronic Medium/ High Static Ducted, 3+1 row, (Auxiliary Heating coil), 4 pipe with AC Motor

UNIT	PDWC-3+1R-[SIZE]-P		400	500	600	800	1000	1400	1600	2000
	Configuration		4 PIPE							
	Number of Fan Blowers		1	2	1	2	2	4		
	Power Supply (V/Ph/Hz)		230 / 1 / 50   220/1/60							
AIR	Air Flow	H	417	561	1060	1405	1778	2263	2629	3539
		M	252	394	805	1194	1222	1721	1972	2818
		L	222	327	331	508	882	978	1132	1274
	Available ESP Pressure	H	120							
		M	120							
		L	120							
COOLING	Cooling Capacity	H	2.39	3.2	5.64	7.16	8.97	11.44	13.07	16.51
		M	1.6	2.4	4.57	6.31	6.74	9.22	10.46	13.79
		L	1.45	2.09	2.24	3.18	5.17	5.88	6.82	7.41
	Sensible Cooling Capacity	H	1.67	2.23	4.02	5.16	6.34	8.11	9.3	12.08
		M	1.1	1.64	3.21	4.5	4.71	6.46	7.37	9.95
		L	1.01	1.43	1.56	2.22	3.55	4.01	4.69	5.19
HEATING	Heating Capacity	H	2.03	2.67	4.7	5.7	7.49	9.28	10.73	13.88
		M	1.37	2.03	3.77	5.02	5.6	7.5	8.63	11.65
		L	1.24	1.71	1.86	2.52	4.36	4.79	5.51	6.14
SOUND	Pressure Level	Outlet	54/50/47	56/53/49	56/54/50	58/56/50	56/52/48	59/57/52	60/58/53	64/62/55
		Inlet + Radiated	57/53/51	59/56/52	59/57/53	61/59/53	59/55/51	62/60/55	63/61/56	67/65/58
	Power Level	Outlet	63/59/57	65/62/58	65/63/59	67/65/59	65/61/57	68/66/61	69/67/62	73/71/64
		Inlet + Radiated	66/62/60	68/65/61	68/66/62	70/68/62	68/64/60	71/69/64	72/70/65	76/74/67
ELECTRICAL (Fan Motor)	Power Input (Cooling) <sup>1</sup>	H	180	230	286	350	320	356	616	995
		M	162	207	258	315	288	320	542	855
		L	140	176	220	270	245	275	463	770
	Power Input (Heating) <sup>1</sup>	H	0.78	1	1.24	1.52	1.39	1.55	2.68	4.33
		M	2.35	3	3.73	4.57	4.17	4.64	8.03	12.98
		L	409	548	967	1227	1538	1962	2240	2830
Running Current	H	273	411	784	1082	1156	1581	1793	2365	
Starting Current		249	358	383	545	886	1007	1168	1270	
HYDRONIC	Cooling Water Flow Rate	H	8.81	16.14	26.24	19.98	24.82	42.66	27.41	25.58
		M	4.27	9.61	17.98	15.94	14.84	28.93	18.37	18.51
		L	3.62	7.51	4.96	4.63	9.19	12.85	8.49	6.05
	Cooling Pressure Drop	H	174	229	403	488	642	795	920	1189
		M	117	174	323	430	480	643	739	999
		L	106	146	159	216	373	411	473	526
	Heating Water Flow Rate	H	9.17	16.62	8.58	12.41	25.78	13.86	20.42	35.82
		M	4.48	10.15	5.78	9.89	15.26	9.46	13.77	26.15
		L	3.77	7.46	1.62	2.87	9.73	4.21	6.15	8.26
	Heating Pressure Drop	H	1.09	1.27	1.84	1.75	2.43	2.88	3.33	3.78
		M	0.36	0.42	0.61	0.58	0.81	0.96	1.11	1.26
		L	8.34	14.03	3.68	4.26	12.91	6.29	9.01	14.17
Cooling water content	L	1.09	1.27	1.84	1.75	2.43	2.88	3.33	3.78	
Heating water content	L	0.36	0.42	0.61	0.58	0.81	0.96	1.11	1.26	

DIMENSIONAL DRAWINGS, DATA & WEIGHTS



Model	Unit Dimensions (mm)																	
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R <sup>(1)</sup>
PDWC 400	635	605	585	610	1055	470	300	256	30	202	620	50	25	150	60	43.3	15	100
PDWC 500	735	705	685	710	1155	470	300	256	30	202	620	50	25	150	60	43.3	15	100
PDWC 600	935	905	885	910	1355	470	300	256	30	202	620	50	25	150	60	43.3	15	100
PDWC 800	935	905	885	710	1355	470	350	306	30	252	620	50	25	175	60	65	15	125
PDWC 1000	1035	1005	985	1010	1455	470	350	306	30	252	620	50	25	175	60	65	15	125
PDWC 1400	1235	1205	1185	1210	1655	470	350	306	30	252	620	50	25	175	60	65	15	125
PDWC 1600	1435	1405	1385	1410	1855	470	350	306	30	252	620	50	25	175	60	65	15	125
PDWC 2000	1695	1665	1645	1670	2215	470	350	306	30	252	620	50	25	175	60	65	15	125

PDWC		400	500	600	800	1000	1400	1600	2000	
CONNECTIONS	Water	Type	Socket (Female Threaded)							
		In	19.05 (3/4")							
	Out	19.05 (3/4")								
CONDENSATE DRAINAGE	Type	Socket (Female Threaded)								
	In	19.05 (3/4")								
WEIGHT	Net	kg	28	37	44	46	48	55	63	83

TESTING CONDITIONS

Cooling mode: Return air temperature: 27°C DB / 19°C WB Inlet / outlet water temperature: 7°C / 12°C  
 Heating mode: Return air temperature: 20°C Inlet / outlet water temperature: 65°C / 55°C

98 (1): Fan motor power includes PCB power input.  
 For High T Condition Requirements, please refer to Selection Software.

ℙ: valid for 4 pipe units only.