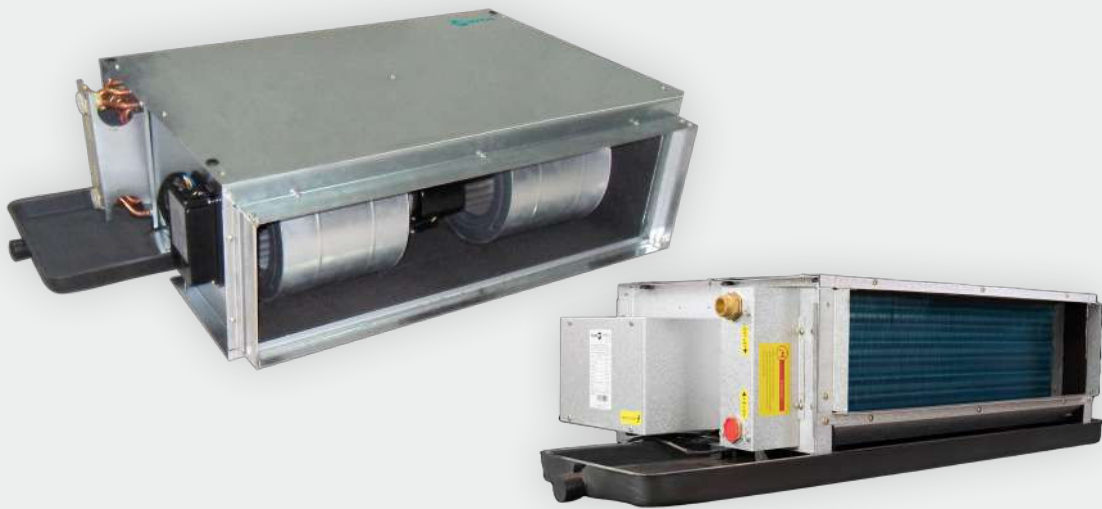
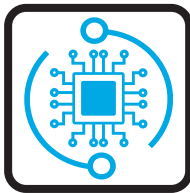


PDWA - MEDIUM ESP DUCTED



FEATURES

CONTROL FLEXIBILITY



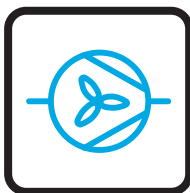
Two types of control system: Intelligent control board (I-Control) controlled via Infra-red handset and/or Intelligent wired wall pad or Flexible control (W-Control) permitting operation with external thermostat applications both controls allows configuration for 2 or 4-pipe settings.

EFFICIENT EC MOTOR



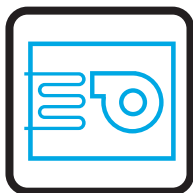
EC motors allow the centrifugal fans to operate at optimum airflow performance, energy efficiency and quiet operation. EC motors include driven control PCB, constant torque, permanent magnet and 3 speeds pre-set or modulating with a 0-10 VDC signal for precise air balancing control.

FAN BLOWER



Optimized forward-curved metal centrifugal fans made from heavy-gauge galvanized steel with die-formed inlet cones housings, statically and dynamically balanced for smooth and quiet operation.

STRUCTURE



Made from heavy-gauge galvanized steel panels with couplings for the connection of ducting and gravity drain pan with insulation for condensation. Compact dimensions with optimum thermal and electrical efficiency for all types of applications.

WATER COILS



Built with seamless copper tubes and headers, mechanically expanded into corrugated aluminium fin material for a permanent primary to secondary surface bond. Tested at 500 psi, with maximum operating limits at 300 psi.

READY TO INSTALL



The PDWA range is offered as a complete package including standard items such as a Powder-coated steel external drain pan, NBR insulation of 0.2", and a MERV 4 filter. Furthermore, we offer multiple optional accessories.

KEY POINTS

- Auto Dynamic Balancing with I-Control
- External Static Pressure up to 0.52 in.wg
- Coil interchangeable on field
- 3, 4 and 6 Row configurations available



ACCESSORIES

- IR Handset or Wired Wall Pad (Available with I-Control)
- Thermostat Controller (Available with W-Control)
- Merv 8 Filter
- Electric heater up to 6kW
- Additional NBR Insulation up to 1"
- Stainless Steel Drain Pan
- 2 or 3 Way On/Off & Modulating Valves
- Belimo Valve Kit
- Integrated Sauermann Condensate Pump
- Supply/Return air Plenum

*Please refer to page 86 for further information and accessories.

TECHNICAL SPECIFICATIONS

Hydronic Medium ESP Ducted Unit; 3R, 2 Pipe with **EC Motor**

UNIT GENERAL SPECS	PDWA-3R-[Size]-V-AECM			200	300	400	500	600	800	1000	1200	1400	1600
	Configuration			2-pipe									
	Number of Fan Blowers			Single		Twin		Three		Four	Three	Four	
	Power Supply (V/Ph/Hz)			110-120/1/60									
				208-240/1/60									
AIR	Total Air Flow	H	CFM	278	369	510	575	698	979	1090	1239	1773	2365
		M		221	330	429	449	594	742	946	1161	1670	2227
		L		166	241	246	337	486	579	757	967	1215	1620
	External Static Pressure	H	in.wg	0.2									
		M											
COOLING	Total Cooling Capacity	H	BTU/Hr	8910	11670	15129	17351	19984	30579	31199	35309	49241	59004
		M		7524	10718	13261	14368	17810	24660	28081	33558	47205	56709
		L		6013	8414	8566	11507	15147	20479	23616	29238	37075	44349
	Sensible Cooling Capacity	H		6066	7917	10414	11844	13558	20793	21473	24267	33880	40445
		M		5053	7245	9074	9660	11947	16514	19173	23011	32378	38739
		L		4001	5588	5713	7676	10099	13604	15945	19792	24999	29773
HEATING	Heating Capacity	H	BTU/Hr	13851	18142	23519	26973	31067	47536	48500	54890	76547	91724
		M		11697	16662	19846	22335	27687	44052	44000	52556	64583	71821
		L		9347	13079	13317	17888	23456	31835	36712	45452	57635	68943
	Max. Electric Heater Capacity @ 115V Max. Electric Heater Capacity @ 220V		kw	1	1.5	2	2.5		3				
				2	3	4	5		6				
SOUND	Pressure Level (outlet)		dB(A)	48/47/43	50/49/46	52/50/44	52/51/46	54/52/49	53/52/47	56/54/50	58/55/52	58/54/50	59/57/55
	Pressure Level (Inlet + Radiated)			50/49/45	52/51/48	54/52/46	54/53/48	56/54/51	55/54/49	58/56/52	60/57/54	60/56/52	61/59/57
	Power Level (outlet)			57/56/52	59/58/55	61/59/53	61/60/55	63/61/58	62/61/56	65/63/59	67/64/61	67/63/59	68/66/64
	Power Level (Inlet + Radiated)			59/58/54	61/60/57	63/61/55	63/62/57	65/63/60	64/63/58	67/65/61	69/66/63	69/65/61	70/68/66
ELECTRICAL	Power Input	H	W	53	63	83	96	102	150	180	224	363	380
		M		43	52	58	68	84	128	147	190	286	310
		L		26	31	35	49	62	84	94	113	170	190
	Running Current 115V (H)		A	0.92	1.1	1.44	1.67	1.77	2.61	3.13	3.9	6.31	6.61
	Running Current 220V (H)			0.48	0.57	0.75	0.87	0.93	1.36	1.64	2.04	3.3	3.45
HYDRONIC	Cooling Water Flow Rate	H	GPM	1.76	2.3	2.99	3.43	3.95	6.04	6.16	6.97	9.72	11.65
		M		1.49	2.12	2.62	2.84	3.52	4.87	5.55	6.63	9.32	11.2
		L		1.19	1.66	1.69	2.27	2.99	4.04	4.66	5.77	7.32	8.76
	Cooling Pressure Drop	H	Ft. hd.	7.81	13.97	8.03	11.09	15.39	19.64	7.09	9.29	19.79	29.38
		M		5.76	11.99	6.34	7.89	12.51	13.33	5.87	8.48	18.35	27.36
		L		3.85	7.75	2.89	5.29	9.34	9.54	4.29	6.61	11.88	17.57
	Heating Water Flow Rate	H	GPM	Same as cooling water flow rate									
		M											
		L											
	Heating Pressure Drop	H	Ft. hd.	7.03	12.58	7.23	9.98	13.85	17.67	6.38	8.36	17.82	26.44
		M		5.18	10.79	5.7	7.1	11.26	12	5.28	7.63	16.51	24.62
		L		3.46	6.98	2.6	4.76	8.41	8.59	3.87	5.95	10.69	15.82
Water Content		Gal	0.19	0.19	0.23	0.27	0.31	0.35	0.51	0.55	0.59	0.68	

TESTING CONDITIONS (RATED AT AHRI STANDARD 440):

a. Cooling conditions (2-pipe or 4-pipe)

- Return air temperature: DB 80°F/WB 67°F.
- Inlet/ outlet water temperature: 45/55°F.

b. Heating conditions (2-pipe)

- Return air temperature: 70°F
- Inlet water temperature: 140°F
- Water flow-rate: Same as cooling mode

TECHNICAL SPECIFICATIONS

Hydronic Medium ESP Ducted Unit; 4R, 2 Pipe with **EC Motor**

UNIT GENERAL SPECS	PDWA-4R-[Size]-V-AECM			200	300	400	500	600	800	1000	1200	1400	1600
	Configuration			2-pipe									
	Number of Fan Blowers			Single		Twin			Three		Four	Three	Four
	Power Supply (V/Ph/Hz)			110-120/1/60									
				208-240/1/60									
AIR	Total Air Flow	H	CFM	259	350	479	543	662	920	1044	1188	1710	2281
		M		205	315	403	419	567	692	909	1122	1621	2162
		L		155	231	226	318	468	546	733	938	1182	1576
	External Static Pressure	H	in.wg	0.2									
		M											
COOLING	Total Cooling Capacity	H	BTU/Hr	9500	12134	16361	19899	22922	31393	37780	42826	57924	69188
		M		7952	11214	14290	16362	20486	25384	34005	40966	55849	66482
		L		6411	8868	9190	13266	17587	20959	28896	35906	43864	52267
	Sensible Cooling Capacity	H	6328	8056	10883	17425	15277	20896	25130	28483	39000	46595	
		M	5222	7420	9445	14108	13540	16633	22439	27191	37505	44731	
		L	4174	5767	5913	11351	11500	13629	18859	23529	28957	34649	
HEATING	Heating Capacity	H	BTU/Hr	14768	18862	25434	30934	35634	48802	58731	66575	90046	107556
		M		12361	17432	22214	25435	31846	39461	52863	63683	86819	103350
		L		9966	13786	14287	20623	27340	32581	44920	55818	68189	81251
	Max. Electric Heater Capacity @ 115V		kw	1	1.5	2	2.5		3				
	Max. Electric Heater Capacity @ 220V			2	3	4	5		6				
SOUND	Pressure Level (outlet)		dB(A)	48/47/43	50/49/46	52/50/44	52/51/46	54/52/49	53/52/47	56/54/50	58/55/52	58/54/50	59/57/55
	Pressure Level (Inlet + Radiated)			50/49/45	52/51/48	54/52/46	54/53/48	56/54/51	55/54/49	58/56/52	60/57/54	60/56/52	61/59/57
	Power Level (outlet)			57/56/52	59/58/55	61/59/53	61/60/55	63/61/58	62/61/56	65/63/59	67/64/61	67/63/59	68/66/64
	Power Level (Inlet + Radiated)			59/58/54	61/60/57	63/61/55	63/62/57	65/63/60	64/63/58	67/65/61	69/66/63	69/65/61	70/68/66
ELECTRICAL	Power Input	H	W	53	63	83	96	102	150	180	224	363	380
		M		43	52	58	68	84	128	147	190	286	310
		L		26	31	35	49	62	84	94	113	170	190
	Running Current 115V (H)		A	0.92	1.1	1.44	1.67	1.77	2.61	3.13	3.9	6.31	6.61
	Running Current 220V (H)			0.48	0.57	0.75	0.87	0.93	1.36	1.64	2.04	3.3	3.45
HYDRONIC	Cooling Water Flow Rate	H	GPM	1.88	2.4	3.23	3.93	4.53	6.2	7.46	8.46	11.44	13.66
		M		1.57	2.21	2.82	3.23	4.05	5.01	6.72	8.09	11.03	13.13
		L		1.27	1.75	1.81	2.62	3.47	4.14	5.71	7.09	8.66	10.32
	Cooling Pressure Drop	H	Ft. hd.	11.7	19.92	37.29	18.84	26.24	27.33	40	52.9	34.8	51.93
		M		8.49	17.28	29.22	13.25	21.43	18.65	33.09	48.83	32.59	48.34
		L		5.76	11.33	13.2	9.08	16.29	13.21	24.69	38.52	21.1	31.35
	Heating Water Flow Rate		GPM	Same as cooling water flow rate									
	Heating Pressure Drop	H	Ft. hd.	10.53	17.92	33.56	16.96	23.61	24.6	36	47.61	31.32	46.74
		M		7.64	15.55	26.3	11.92	19.29	16.78	29.78	43.95	29.33	43.5
		L		5.19	10.19	11.81	8.17	14.66	11.89	22.22	34.67	18.99	28.21
	Water Content		Gal	0.25	0.31	0.36	0.41	0.47	0.68	0.73	0.79	0.91	1

TESTING CONDITIONS (RATED AT AHRI STANDARD 440):

a. Cooling conditions (2-pipe or 4-pipe)

- Return air temperature: DB 80°F/WB 67°F.
- Inlet/ outlet water temperature: 45/55°F.

b.Heating conditions (2-pipe)

- Return air temperature: 70°F
- Inlet water temperature: 140°F
- Water flow-rate: Same as cooling mode

(All dimensions are approximate and within 1/16 of an inch of those indicated.)

TECHNICAL SPECIFICATIONS

Hydronic Medium ESP Ducted Unit; 6R, 2 Pipe with **EC Motor**

UNIT GENERAL SPECS	PDWA-6R-[Size]-V-AECM			200	300	400	500	600	800	1000	1200	1400	1600
	Configuration			2-pipe									
	Number of Fan Blowers			Single		Twin			Three		Four	Three	Four
	Power Supply (V/Ph/Hz)			110-120/1/60									
				208-240/1/60									
AIR	Total Air Flow	H	CFM	224	313	421	484	596	809	957	1094	1593	2124
		M		173	284	352	360	511	591	837	1043	1524	2032
		L		133	210	186	279	430	480	686	881	1116	1488
	External Static Pressure	H	in.wg	0.2									
		M											
COOLING	Total Cooling Capacity	H	BTU/Hr	9422	13193	17257	20261	24259	33771	39771	45272	63108	79891
		M		7777	12320	15104	16123	21619	26627	35948	43742	60949	77264
		L		6270	9744	9262	13232	19010	22568	30850	38188	48195	60816
	Sensible Cooling Capacity	H		6130	8546	11237	13143	15816	21883	25738	29244	41212	52833
		M		4985	7935	9717	10306	13937	16961	23048	28179	39743	51027
		L		3985	6192	5794	8370	12192	14295	19673	24451	30854	39467
HEATING	Heating Capacity	H	BTU/Hr	14647	20508	26827	31496	37711	52499	61826	70377	98105	124193
		M		12090	19152	23480	25063	33608	41393	55882	68000	94748	12111
		L		9747	15147	14397	20570	29551	35082	47957	59364	74922	94542
	Max. Electric Heater Capacity @ 115V		kw	1	1.5	2	2.5		3				
	Max. Electric Heater Capacity @ 220V			2	3	4	5		6				
SOUND	Pressure Level (outlet)		dB(A)	48/47/43	50/49/46	52/50/44	52/51/46	54/52/49	53/52/47	56/54/50	58/55/52	58/54/50	59/57/55
	Pressure Level (Inlet + Radiated)			50/49/45	52/51/48	54/52/46	54/53/48	56/54/51	55/54/49	58/56/52	60/57/54	60/56/52	61/59/57
	Power Level (outlet)			57/56/52	59/58/55	61/59/53	61/60/55	63/61/58	62/61/56	65/63/59	67/64/61	67/63/59	68/66/64
	Power Level (Inlet + Radiated)			59/58/54	61/60/57	63/61/55	63/62/57	65/63/60	64/63/58	67/65/61	69/66/63	69/65/61	70/68/66
ELECTRICAL	Power Input	H	W	53	63	83	96	102	150	180	224	363	380
		M		43	52	58	68	84	128	147	190	286	310
		L		26	31	35	49	62	84	94	113	170	190
	Running Current 115V (H)		A	0.92	1.1	1.44	1.67	1.77	2.61	3.13	3.9	6.31	6.61
	Running Current 220V (H)			0.48	0.57	0.75	0.87	0.93	1.36	1.64	2.04	3.3	3.45
HYDRONIC	Cooling Water Flow Rate	H	GPM	1.86	2.61	3.41	4	4.79	6.67	7.85	8.94	12.46	15.78
		M		1.54	2.43	2.98	3.18	4.27	5.26	7.1	8.64	12.04	15.26
		L		1.24	1.92	1.83	2.61	3.75	4.46	6.09	7.54	9.52	12.01
	Cooling Pressure Drop	H	Ft. hd.	17.35	34.53	20.15	29.09	19.71	46.52	35.59	46.99	55.25	45.06
		M		12.28	30.53	15.86	19.28	16.02	30.33	29.67	44.17	51.9	42.43
		L		8.33	20.02	6.57	13.51	12.71	22.52	22.53	34.59	34.01	27.58
	Heating Water Flow Rate		GPM	Same as cooling water flow rate									
	Heating Pressure Drop	H	Ft. hd.	15.61	31.08	18.14	26.18	17.74	41.87	32.03	42.29	49.73	40.56
		M		11.05	27.48	14.27	17.36	14.42	27.29	26.7	39.76	46.71	38.19
		L		7.5	18.01	5.92	12.16	11.44	20.26	20.28	31.13	30.61	24.82
Water Content		Gal	0.38	0.46	0.54	0.62	0.7	1.01	1.09	1.17	1.37	1.5	

TESTING CONDITIONS (RATED AT AHRI STANDARD 440):

a. Cooling conditions (2-pipe or 4-pipe)

- Return air temperature: DB 80°F/WB 67°F.
- Inlet/ outlet water temperature: 45/55°F.

b. Heating conditions (2-pipe)

- Return air temperature: 70°F
- Inlet water temperature: 140°F
- Water flow-rate: Same as cooling mode

(All dimensions are approximate and within 1/16 of an inch of those indicated.)

TECHNICAL SPECIFICATIONS

Hydronic Medium ESP Ducted Unit; 3R+1 (Auxiliary Heating Coil), 4 Pipe with **EC Motor**

UNIT GENERAL SPECS	PDWA-3R+1-[Size]-P-AECM			200	300	400	500	600	800	1000	1200	1400	1600
	Configuration			4-pipe									
	Number of Fan Blowers			Single		Twin			Three		Four	Three	Four
	Power Supply (V/Ph/Hz)			110-120/1/60									
				208-240/1/60									
AIR	Total Air Flow	H	CFM	259	350	479	543	662	920	1044	1188	1710	2281
		M		205	315	403	419	567	692	909	1122	1621	2162
		L		155	231	226	318	468	546	733	938	1182	1576
	External Static Pressure	H	in.wg	0.2									
		M											
COOLING	Total Cooling Capacity	H	BTU/Hr	8471	11194	14447	16613	19222	29153	30308	34308	48115	57693
		M		7062	10322	12667	13585	17168	23374	27190	32807	45947	55360
		L		5650	8151	8109	10938	14794	19535	23124	28711	36082	43578
	Sensible Cooling Capacity	H		5754	7581	9923	11318	12982	19784	20833	23549	33038	39470
		M		4722	6957	8632	9102	11486	15595	18494	22461	31481	37748
		L		3751	5409	5377	7279	9855	12955	15605	19411	24284	29221
HEATING	Heating Capacity	H	BTU/Hr	7365	9705	12865	14521	17265	24485	27471	30588	41146	52457
		M		6191	9003	11246	11925	15248	19727	24765	29316	39667	50669
		L		4970	7065	7164	9653	13238	16439	20890	25321	31042	39624
SOUND	Pressure Level (outlet)		dB(A)	48/47/43	48/47/43	50/49/46	52/50/44	52/51/46	54/52/49	53/52/47	56/54/50	58/55/52	58/54/50
	Pressure Level (Inlet + Radiated)			50/49/45	50/49/45	52/51/48	54/52/46	54/53/48	56/54/51	55/54/49	58/56/52	60/57/54	60/56/52
	Power Level (outlet)			57/56/52	59/58/55	61/59/53	61/60/55	63/61/58	62/61/56	65/63/59	67/64/61	67/63/59	68/66/64
	Power Level (Inlet + Radiated)			59/58/54	61/60/57	63/61/55	63/62/57	65/63/60	64/63/58	67/65/61	69/66/63	69/65/61	70/68/66
ELECTRICAL	Power Input	H	W	53	63	83	96	102	150	180	224	363	380
		M		43	52	58	68	84	128	147	190	286	310
		L		26	31	35	49	62	84	94	113	170	190
	Fan Motor Running Current @ 115V / 220V		A	0.92 / 0.48	1.1 / 0.57	1.44 / 0.75	1.67 / 0.87	1.77 / 0.93	2.61 / 1.36	3.13 / 1.64	3.90 / 2.04	6.31 / 3.30	6.61 / 3.45
HYDRONIC	Cooling Water Flow Rate	H	GPM	1.67	2.21	2.85	3.28	3.8	5.76	5.99	6.78	9.5	11.39
		M		1.39	2.04	2.5	2.68	3.39	4.62	5.37	6.48	9.07	10.93
		L		1.12	1.61	1.6	2.16	2.92	3.86	4.57	5.67	7.13	8.61
	Cooling Pressure Drop	H	Ft. hd.	7.13	12.96	7.39	10.25	14.35	18.02	6.73	8.82	18.99	28.22
		M		5.14	11.2	5.83	7.14	11.71	12.11	5.54	8.14	17.48	26.2
		L		3.4	7.3	2.6	4.8	9	8.8	4.1	6.4	11.3	17
	Heating Water Flow Rate	H	GPM	0.37	0.48	0.64	0.72	0.86	1.22	1.37	1.52	2.05	2.61
		M		0.31	0.45	0.56	0.59	0.76	0.98	1.23	1.46	1.98	2.52
		L		0.25	0.35	0.36	0.48	0.66	0.82	1.04	1.26	1.55	1.97
	Heating Pressure Drop	H	Ft. hd.	0.74	1.37	2.54	3.49	0.74	1.86	2.43	3.16	0.48	0.81
		M		0.54	1.2	1.99	2.45	0.59	1.26	2.02	2.93	0.45	0.76
		L		0.36	0.77	0.88	1.67	0.46	0.91	1.48	2.25	0.29	0.49
	Chilled water content		Gal	0.19	0.19	0.19	0.23	0.27	0.31	0.35	0.51	0.55	0.59
	Hot water content			0.12	0.06	0.08	0.09	0.1	0.12	0.17	0.18	0.2	0.23

TESTING CONDITIONS (RATED AT AHRI STANDARD 440):

a. Cooling conditions (2-pipe or 4-pipe)

- Return air temperature: DB 80°F/WB 67°F.
- Inlet/ outlet water temperature: 45/55°F.

b. Heating conditions (4-pipe)

- Return air temperature: 70°F
- Inlet water temperature: 180/140°F

(All dimensions are approximate and within 1/16 of an inch of those indicated.)

TECHNICAL SPECIFICATIONS

Hydronic Medium ESP Ducted Unit; 3R+2 (Auxiliary Heating Coil), 4Pipe with **EC Motor**

UNIT GENERAL SPECS	PDWA-3R+2-[Size]-P-AECM			200	300	400	500	600	800	1000	1200	1400	1600
	Configuration			4-pipe									
	Number of Fan Blowers			Single		Twin			Three		Four	Three	Four
	Power Supply (V/Ph/Hz)			110-120/1/60 208-240/1/60									
AIR	Total Air Flow	H	CFM	240	330	448	511	627	860	997	1138	1647	2196
		M		189	299	378	390	539	641	873	1082	1573	2097
		L		144	220	206	299	449	513	710	910	1149	1532
	External Static Pressure	H M L	in.wg	0.2									
COOLING	Total Cooling Capacity	H	BTU/Hr	7970	10718	13656	15876	18452	27523	29195	33057	46576	56054
		M		6650	9925	11970	12905	16503	22055	26487	32056	45004	54261
		L		5359	7883	7526	10511	14264	18592	22631	27921	35420	42421
	Sensible Cooling Capacity	H		5384	7245	9357	10777	12407	18631	20023	22652	31930	38252
		M		4438	6660	8106	8637	11026	14676	17984	21889	30807	36969
		L		3542	5227	4957	6967	9490	12306	15265	18839	23807	28392
HEATING	Heating Capacity	H	BTU/Hr	11215	15130	19980	22802	27497	38488	43877	49297	67673	87017
		M		9387	14107	17590	18576	24628	30809	39448	47552	65258	83468
		L		7568	11163	10882	15037	21329	25772	33494	41663	51225	66002
SOUND	Pressure Level (outlet)		dB(A)	48/47/43	50/49/46	52/50/44	52/51/46	54/52/49	53/52/47	56/54/50	58/55/52	58/54/50	59/57/55
	Pressure Level (Inlet + Radiated)			50/49/45	52/51/48	54/52/46	54/53/48	56/54/51	55/54/49	58/56/52	60/57/54	60/56/52	61/59/57
	Power Level (outlet)			57/56/52	59/58/55	61/59/53	61/60/55	63/61/58	62/61/56	65/63/59	67/64/61	67/63/59	68/66/64
	Power Level (Inlet + Radiated)			59/58/54	61/60/57	63/61/55	63/62/57	65/63/60	64/63/58	67/65/61	69/66/63	69/65/61	70/68/66
ELECTRICAL	Power Input	H	W	53	63	83	96	102	150	180	224	363	380
		M		43	52	58	68	84	128	147	190	286	310
		L		26	31	35	49	62	84	94	113	170	190
	Running Current 115V (H)		A	0.92	1.1	1.44	1.67	1.77	2.61	3.13	3.9	6.31	6.61
	Running Current 220V (H)			0.48	0.57	0.75	0.87	0.93	1.36	1.64	2.04	3.3	3.45
HYDRONIC	Cooling Water Flow Rate	H	GPM	1.57	2.12	2.7	3.14	3.64	5.44	5.77	6.53	9.2	11.07
		M		1.31	1.96	2.36	2.55	3.26	4.36	5.23	6.33	8.89	10.72
		L		1.06	1.56	1.49	2.08	2.82	3.67	4.47	5.51	6.99	8.38
	Cooling Pressure Drop	H	Ft. hd.	6.39	11.99	6.68	9.45	13.33	16.25	6.29	8.25	17.91	26.79
		M		4.61	10.44	5.27	6.51	10.9	10.91	5.28	7.81	16.83	25.27
		L		3.13	6.9	2.29	4.5	8.39	8.02	3.98	6.09	10.94	16.22
	Heating Water Flow Rate	H	GPM	0.56	0.75	1	1.14	1.37	1.92	2.19	2.46	3.37	4.33
		M		0.47	0.7	0.88	0.93	1.23	1.53	1.97	2.37	3.25	4.16
		L		0.38	0.56	0.54	0.75	1.06	1.25	1.67	2.08	2.55	3.29
	Heating Pressure Drop	H	Ft. hd.	0.47	0.9	1.65	0.74	1.13	2.74	1.65	2.16	1.45	2.47
		M		0.34	0.8	1.31	0.51	0.92	1.84	1.37	2.03	1.36	2.29
		L		0.23	0.52	0.55	0.35	0.71	1.33	1.02	1.6	0.88	1.5
	Chilled water content		Gal	0.19	0.23	0.27	0.31	0.35	0.51	0.55	0.59	0.68	0.75
	Hot water content			0.12	0.16	0.18	0.2	0.24	0.34	0.36	0.4	0.46	0.5

TESTING CONDITIONS (RATED AT AHRI STANDARD 440):

a. Cooling conditions (2-pipe or 4-pipe)

- Return air temperature: DB 80°F/WB 67°F.
- Inlet/ outlet water temperature: 45/55°F.

b. Heating conditions (4-pipe)

- Return air temperature: 70°F
- Inlet water temperature: 180/140°F

(All dimensions are approximate and within 1/16 of an inch of those indicated.)

TECHNICAL SPECIFICATIONS

Hydronic Medium ESP Ducted Unit; 4R+2 (Auxiliary Heating Coil), 4 Pipe with **EC Motor**

UNIT GENERAL SPECS	PDWA-4R+2-[Size]-P-AECM			200	300	400	500	600	800	1000	1200	1400	1600
	Configuration			4-pipe									
	Number of Fan Blowers			Single		Twin		Three		Four	Three	Four	
	Power Supply (V/Ph/Hz)			110-120/1/60									
				208-240/1/60									
AIR	Total Air Flow	H	CFM	224	313	421	484	596	809	957	1094	1593	2124
		M		173	284	352	360	511	591	837	1043	1524	2032
		L		133	210	186	279	430	480	686	881	1116	1488
	External Static Pressure	H	in.wg	0.2									
		M											
COOLING	Total Cooling Capacity	H	BTU/Hr	8497	11130	14835	18219	21136	28405	35354	40345	54732	65344
		M		6942	10378	12965	14541	18810	22396	32075	38795	52872	63519
		L		5637	8212	7882	11969	16510	18982	27406	34258	41906	50227
	Sensible Cooling Capacity	H		5617	7362	9827	15875	14020	18825	23434	26733	36725	43933
		M		4531	6812	8483	12478	12340	14590	21047	25589	35425	42601
		L		3640	5350	5016	10176	10780	12297	17865	22385	27576	33140
HEATING	Heating Capacity	H	BTU/Hr	10663	14561	19093	21888	26424	36726	42425	47988	66224	84651
		M		8806	13520	16656	17339	23475	28831	38276	46243	63809	81693
		L		7111	10637	10134	14200	20583	24413	32675	70703	50157	64694
SOUND	Pressure Level (outlet)		dB(A)	48/47/43	50/49/46	52/50/44	52/51/46	54/52/49	53/52/47	56/54/50	58/55/52	58/54/50	59/57/55
	Pressure Level (Inlet + Radiated)			50/49/45	52/51/48	54/52/46	54/53/48	56/54/51	55/54/49	58/56/52	60/57/54	60/56/52	61/59/57
	Power Level (outlet)			57/56/52	59/58/55	61/59/53	61/60/55	63/61/58	62/61/56	65/63/59	67/64/61	67/63/59	68/66/64
	Power Level (Inlet + Radiated)			59/58/54	61/60/57	63/61/55	63/62/57	65/63/60	64/63/58	67/65/61	69/66/63	69/65/61	70/68/66
ELECTRICAL	Power Input	H	W	53	63	83	96	102	150	180	224	363	380
		M		43	52	58	68	84	128	147	190	286	310
		L		26	31	35	49	62	84	94	113	170	190
	Running Current 115V (H)		A	0.92	1.1	1.44	1.67	1.77	2.61	3.13	3.9	6.31	6.61
	Running Current 220V (H)			0.48	0.57	0.75	0.87	0.93	1.36	1.64	2.04	3.3	3.45
HYDRONIC	Cooling Water Flow Rate	H	GPM	1.68	2.2	2.93	3.6	4.17	5.61	6.98	7.97	10.81	12.9
		M		1.37	2.05	2.56	2.87	3.71	4.42	6.33	7.66	10.44	12.54
		L		1.11	1.62	1.56	2.36	3.26	3.75	5.41	6.77	8.28	9.92
	Cooling Pressure Drop	H	Ft. hd.	9.57	17.05	31.26	16.08	22.67	22.83	35.49	47.51	31.42	46.86
		M		6.65	15.03	24.53	10.71	18.38	14.88	29.79	44.28	29.53	44.53
		L		4.57	9.86	10.02	7.55	14.53	11.05	22.44	35.39	19.43	29.18
	Heating Water Flow Rate	H	GPM	0.83	0.73	0.95	1.09	1.32	1.83	2.11	2.39	3.3	4.22
		M		0.37	0.6	0.7	0.75	1.06	1.37	1.55	1.91	2.39	2.79
		L		0.35	0.53	0.5	0.71	1.03	1.22	1.63	2.03	2.5	3.22
	Heating Pressure Drop	H	Ft. hd.	0.43	0.84	1.52	0.68	1.05	2.52	1.56	2.06	1.39	2.35
		M		0.3	0.74	1.19	0.45	0.85	1.63	1.29	1.93	1.3	2.2
		L		0.21	0.48	0.49	0.31	0.67	1.21	0.97	1.53	0.84	1.45
	Chilled water content		Gal	0,25	0,31	0,36	0,41	0,47	0,68	0,73	0,79	0,91	1
	Hot water content			0,12	0,16	0,18	0,2	0,24	0,34	0,36	0,4	0,46	0,5

TESTING CONDITIONS (RATED AT AHRI STANDARD 440):

a. Cooling conditions (2-pipe or 4-pipe)

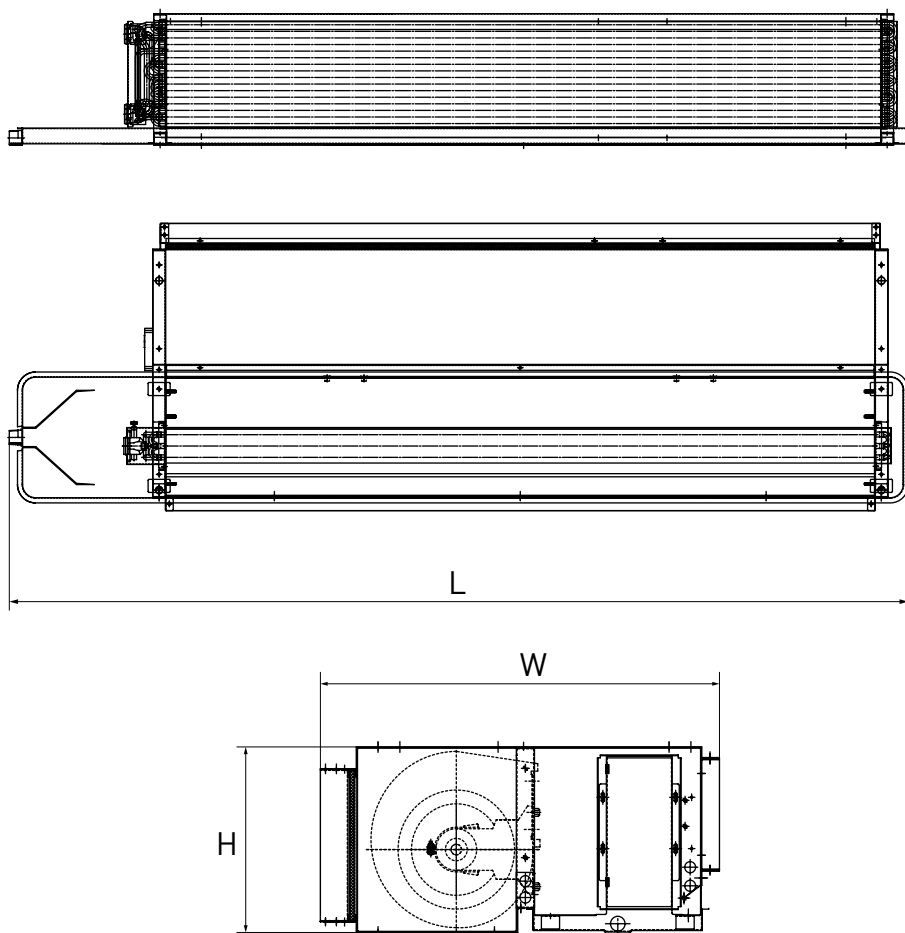
- Return air temperature: DB 80°F/WB 67°F.
- Inlet/ outlet water temperature: 45/55°F.

b.Heating conditions (4-pipe)

- Return air temperature: 70°F
- Inlet water temperature: 180/140°F

(All dimensions are approximate and within 1/16 of an inch of those indicated.)

DIMENSIONAL DRAWINGS, DATA & WEIGHTS



PDWA				200	300	400	500	600	800	1000	1200	1400	1600		
CONSTRUCTION AND PACKING DATA	Water Connections	Type		FNPT (Threaded Female)											
		In	inch	3/4											
	Out														
	Condensate Drainage		L	inch	29 3/4	33 5/8	37 5/8	45 1/2	49 3/8	65 1/8	69 1/8	73	69 1/8	77	
	Dimensions (3R, 4R and 3+1R)				W	21 1/2								24 1/4	
					H	9 13/16								11 13/16	
	Dimensions (6R, 3+2R and 4+2R)		L	inch	29 3/4	33 5/8	37 5/8	45 1/2	49 3/8	65 1/8	69 1/8	73	69 1/8	77	
			W		23 1/4								26		
			H		9 13/16								11 13/16		
	WEIGHT	Net Weight (3R, 4R and 3+1R)	lbs		37	51	53	62	68	79	95	99	112	132	
Net Weight (6R, 3+2R and 4+2R)		lbs		47	63	67	78	92	107	136	140	151	174		