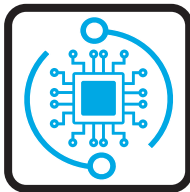


PDWSL - SLIM ESP DUCTED



FEATURES

CONTROL FLEXIBILITY



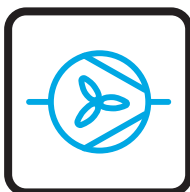
Two types of control system: Intelligent control board (I-Control) controlled via Infra-red handset and/or Intelligent wired wall pad or Flexible control (W-Control) permitting operation with external thermostat applications both controls allows configuration for 2 or 4-pipe settings.

EFFICIENT EC MOTOR

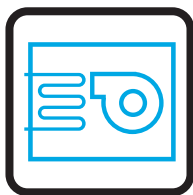


EC motors allow the centrifugal fans to operate at optimum airflow performance, energy efficiency and quiet operation. EC motors include driven control PCB, constant torque, permanent magnet and 3 speeds pre-set or modulating with a 0-10 VDC signal for precise air balancing control.

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

7 7/8" low height design, perfect for reduced space concealed installations, Made from heavy-gauge galvanized steel panels with couplings for the connection of ducting and gravity drain pan with insulation for condensation.



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 PDWSL range is offered as a complete package including standard items such as an integrated Condensate Pump, 0.2" NBR Insulation, and a MERV 4 filter. Furthermore, we offer multiple optional accessories.

KEY POINTS

- Slim design with 7 7/8" height
- Integrated condensate pump
- Auto Dynamic Balancing with I-Control
- Quiet operation



ACCESSORIES

- IR Handset or Wired Wall Pad (Available with I-Control)
- Thermostat Controller (Available with W-Control)
- Merv 8 Filter
- Electric heater up to 3kW
- Additional NBR Insulation up to 1"
- Stainless Steel drain pan
- 2 or 3 Way On/Off & Modulating Valves
- Belimo Valve Kit

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

TECHNICAL SPECIFICATIONS

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

UNIT GENERAL SPECS	PDWSL-3R-[Size]-V-AECM			01	02	03
	Configuration			2-pipe		
	Number of Fan Blowers			2	3	4
	Power Supply (V/Ph/Hz)			110-120 / 1 / 60		
				208-240 / 1 /60		
AIR	Total Air Flow	H	CFM	351	539	726
		M		254	379	506
		L		101	155	225
	External Static Pressure	H	in.wg	0.05		
		M				
		L				
COOLING	Total Cooling Capacity	H	BTU/Hr	10150	16124	21426
		M		7807	12174	16178
		L		3667	5921	8407
	Sensible Cooling Capacity	H		6812	10778	14340
		M		5186	8045	10704
		L		2425	3900	5559
HEATING	Heating Capacity	H	BTU/Hr	15779	25066	33308
		M		12137	18926	25149
		L		5701	9205	13069
	Max. Electric Heater Capacity @ 220V		kw	1	2	3
	Max. Electric Heater Capacity @ 115V			0.5	1	1.5
SOUND	Pressure Level (Outlet)		dB(A)	43/37/22	45/40/25	46/41/26
	Pressure Level (Inlet + Radiated)			46/40/25	48/43/28	49/44/26
	Power Level (Outlet)			52/46/31	54/49/34	55/50/35
	Power Level (Inlet + Radiated)			55/49/34	57/52/37	58/53/38
ELECTRICAL	Power Input	H	W	42	70	84
		M		23	40	43
		L		11	15	17
	Running Current 115V (H)		A	0.73	1.22	1.46
	Running Current 220V (H)			0.381	0.63	0.76
HYDRONIC	Cooling Water Flow Rate	H	GPM	2	3.18	4.23
		M		1.54	2.4	3.19
		L		0.72	1.17	1.66
	Cooling Pressure Drop	H	ft.wg	9.62	10.31	9.58
		M		6	6.22	5.78
		L		1.23	1.36	1.42
	Heating Water Flow Rate	H	GPM	Same as cooling water flow rate		
		M				
		L				
	Heating Pressure Drop	H	ft.wg	8.66	9.28	8.62
		M		5.4	5.6	5.2
		L		1.39	1.53	1.6
	Water Content		gal	0.21	0.35	0.48

TESTING CONDITIONS (RATED AT AHRI STANDARD 440):

a. Cooling mode (2-pipe):

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

b. Heating mode (2-pipe):

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

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

TECHNICAL SPECIFICATIONS

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

UNIT GENERAL SPECS	PDWSL-3R+1-[Size]-P-AECM			01	02	03
	Configuration			4-pipe		
	Number of Fan Blowers			2	3	4
	Power Supply (V/Ph/Hz)			110-120 / 1 / 60 208-240 / 1 /60		
AIR	Total Air Flow	H	CFM	364	553	735
		M		266	397	523
		L		103	143	181
	External Static Pressure	H	in.wg	0.05		
		M				
		L				
COOLING	Total Cooling Capacity	H	BTU/Hr	10435	16420	21819
		M		8120	12663	16610
		L		3797	5516	7061
	Sensible Cooling Capacity	H		7017	10990	14622
		M		5411	8393	11018
		L		2515	3623	4635
HEATING	Heating Capacity	H	BTU/Hr	9716	15205	20342
		M		7561	11726	15486
		L		3536	5108	6583
SOUND	Pressure Level (Outlet)		dB(A)	43/37/22	45/40/25	46/41/26
	Pressure Level (Inlet + Radiated)			46/40/25	48/43/28	49/44/26
	Power Level (Outlet)			52/46/31	54/49/34	55/50/35
	Power Level (Inlet + Radiated)			55/49/34	57/52/37	58/53/38
ELECTRICAL	Power input	H	W	42	70	84
		M		23	40	43
		L		11	15	17
	Running Current 115V (H)		A	0.73	1.22	1.46
	Running Current 220V (H)			0.381	0.63	0.76
	HYDRONIC	Cooling Water Flow Rate	H	GPM	2.06	3.24
M			1.6		2.5	3.28
L			0.75		1.09	1.39
Cooling Pressure Drop		H	ft.wg	10.11	10.66	9.9
		M		6.44	6.88	6.06
		L		1.64	1.5	1.3
Heating Water Flow Rate		H	GPM	0.48	0.76	1.01
		M		0.38	0.58	0.77
		L		0.18	0.25	0.33
Heating Pressure Drop		H	ft.wg	1.23	0.58	1.23
		M		0.78	0.37	0.75
		L		0.2	0.08	0.16
Chilled Water Content		gal	0.21	0.35	0.48	
Hot Water Content				0.12	0.16	

TESTING CONDITIONS (RATED AT AHRI STANDARD 440):

a. Cooling mode (2-pipe/ 4-pipe):

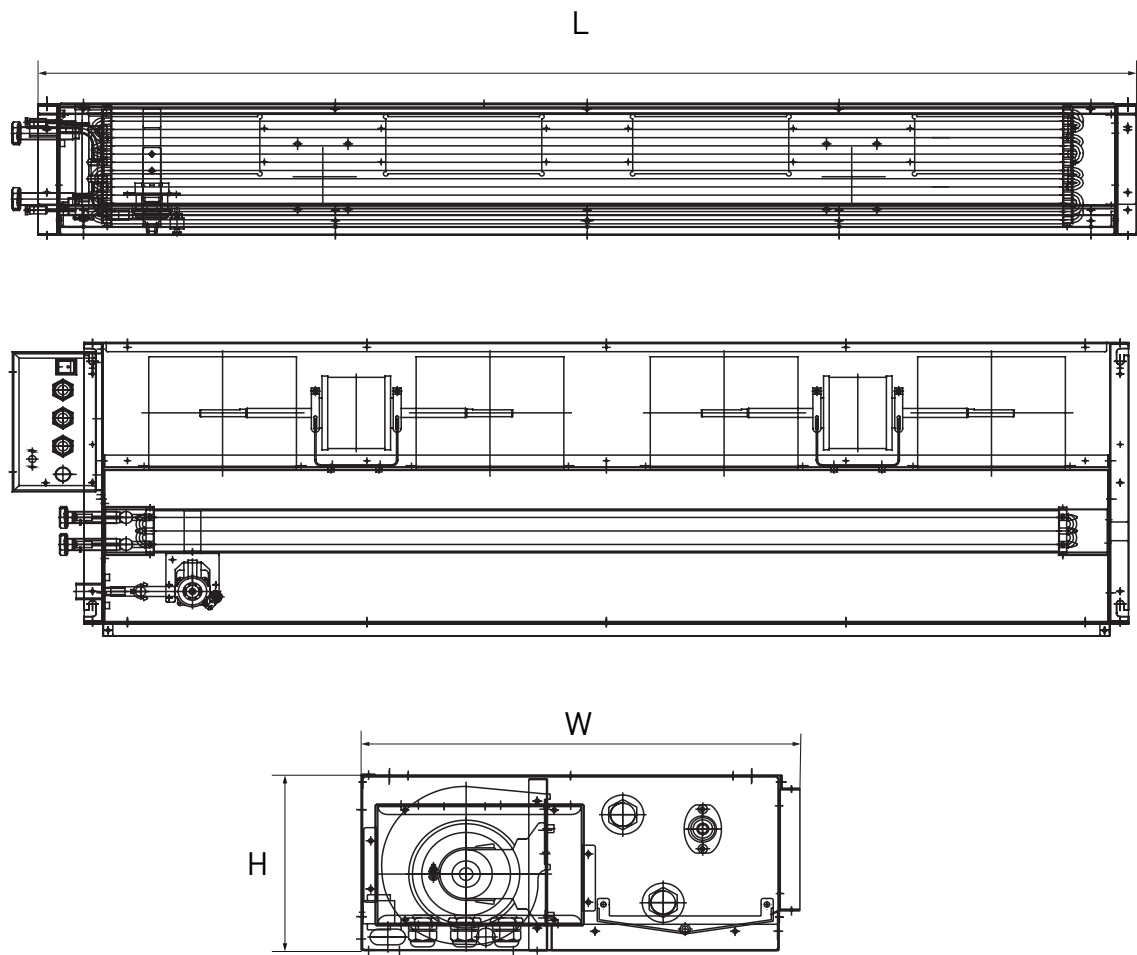
- Return air temperature: DB 80°F/WB 67°F
- Inlet/ outlet water temperature: 45°F/ 55°F

b. Heating mode (4-pipe):

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

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

DIMENSIONAL DRAWINGS, DATA & WEIGHTS



PDWSL				01	02	03
CONSTRUCTION AND PACKING DATA	Cooling Water ConnectionsT	Type	FNPT (Threaded Female)			
		In	inch	3/4		
	Condensate Drainage	Out		1		
		In	inch	1/2		
	Heating Water Connections (Only 4 pipes)	Out		31 1/2		
		L	inch	48 5/8	61 13/16	
	Dimensions	W		18 1/2		
		H		7 7/8		
WEIGHT	Net Weight	lbs		44	62	77