Ducted Fan COILS

Introduction

OMRAN TAHVIEH (ODFC) INCLUDED :

Condensate drain pan is constructed of heavy gauge galvanized sheet metal. The condensate drain outlet is up to ¾ inch O.D.

Farming
Unit frames are fabricated with diecasted corners and Aluminum extruded profiles. Unit frames are completely stable and demountagable.

Casing
Unit casing and panels are single skinned and fabricated with (1.25~1.5mm) wall thickness hot dip galvanized steel gascketed and air-Tightened.

Thermal Insulation
10mm high quality, poly roll thermal and noise and moisture insulator.

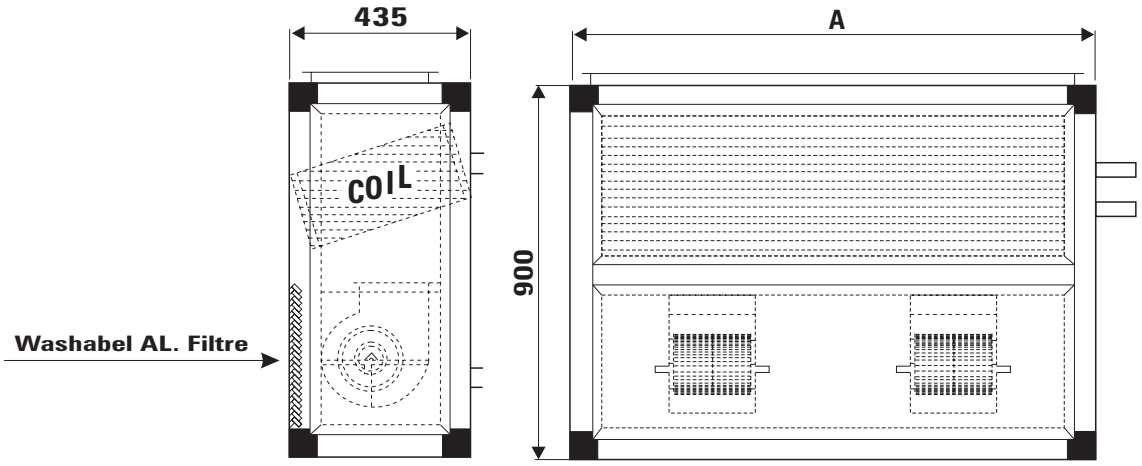
Coils
Coils are constructed of 5/8 inch O.D. Copper tubes with waffled and rippled edge aluminum or copper fins mechanically bonded to the tubes. All coils are leak tested with 300 psig air in an illuminated water test tank .

All DX Coils are evacuated and backfilled with 5 psig dry nitrogen to assembly on the units.

Bed Filter
Permanent washable flat type air filter, constructed with Corrugated mesh aluminum expanded sheet.

Fans
The fans are direct driven, centrifugal, forward curved, double width wheels. Blower housings are galvanized steel sheet with specially rolled perimeter welded to add rigidity .

Motors
Motors are variable speed by speed controller, single phase -50HZ, 220V, IP 55, Fitsch Bach type.(optional)



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	Model	A(mm)	Pipe Size (in.)
1	ODFC-C0600	650	3/4
2	ODFC-C0800	760	3/4
3	ODFC C1000	875	3/4
4	ODFC-C1200	985	1
5	ODFC-C1400	1100	1
6	ODFC-C1600	1210	1
7	ODFC-C1800	1375	1
8	ODFC-C2000	1540	1 1/4
9	ODFC-C2400	1700	1 1/4
10	ODFC-C2800	1950	1 1/4
11	ODFC-C3000	2080	1 1/2
12	ODFC-C3200	2210	1 1/2

COIL RATINGS

TABEL1. WATER COOLING COIL RATINGS AT NOMINAL CFM

MODEL	4 ROW , 8 FPI			
	ENTERING AIR °F DB/WB			
	80/67		85/70	
	TOTAL MBH	SENS MBH	TOTAL MBH	SENS MBH
ODFC -600	20	15	22	16
ODFC -800	25	20	29	22
ODFC-1000	30	25	38	28
ODFC-1200	36	28	41	31
ODFC-1400	43	33	49	37
ODFC-1600	48	37	55	42
ODFC-1800	55	43	63	48
ODFC-2000	64	48	74	54
ODFC-2400	74	58	84	63
ODFC-2800	85	69	96	75
ODFC-3200	94	78	106	84

TABLE 2. WATER HEATING COIL RATINGS AT NOMINAL CFM (4 ROW , 8 FPI)

EDB	50°F		60°F		70°F	
MODEL	TOTAL MBH	LDB °F	TOTAL MBH	LDB °F	TOTAL MBH	LDB °F
ODFC -600	63	144	55	147	51	149
ODFC -800	82	144	76	147	70	150
ODFC-1000	103	145	95	148	87	150
ODFC-1200	120	143	111	145	102	148
ODFC-1400	142	143	130	146	120	149
ODFC-1600	160	143	147	145	135	148
ODFC-1800	182	144	168	146	154	149
ODFC-2000	205	145	190	147	174	150
ODFC-2400	241	144	229	147	212	150
ODFC-2800	278	144	265	148	251	150
ODFC-3200	310	143	301	147	289	150

AIR FLOW RATE

TABLE 3. AIR FLOW RATE (4 ROW COIL)

MODEL	CFM AT EXTERNAL STATIC PRESSURE (in)				
	0	0.1	0.2	0.4	0.45
ODFC -600	1025	1000	970	910	600
ODFC -800	1200	1180	1150	1100	800
ODFC-1000	1480	1450	1300	1150	1000
ODFC-1200	2100	1900	1700	1450	1300
ODFC-1400	2200	2000	1800	1600	1450
ODFC-1600	2400	2340	2300	1900	1600
ODFC-1800	2800	2600	2400	2200	1900
ODFC-2000	3000	2800	2600	2300	2000

Special orders are acceptable

All data and specification subject to change without notice .

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