YORK®

YEDFC EC Motor Fan Coil Unit

The power behind **your mission**

Johnson Controls

Product Introduction

INTRODUCTION

Johnson Controls YORK® YEDFC fan coil units are ceiling mounted, high air flow, high static pressure air conditioning terminals. They are designed, developed and tested considering the tough weather conditions of the Gulf and their reliability makes them an ideal solution of year round air conditioning, heating and ventilating requirements.

YEDFC units are designed and manufactured to the high standards that are expected of a product from Johnson Controls, having an up to date style and advanced structure. They are highly efficient, quiet, cost effective, safe, reliable and offer ease and economy in installation.

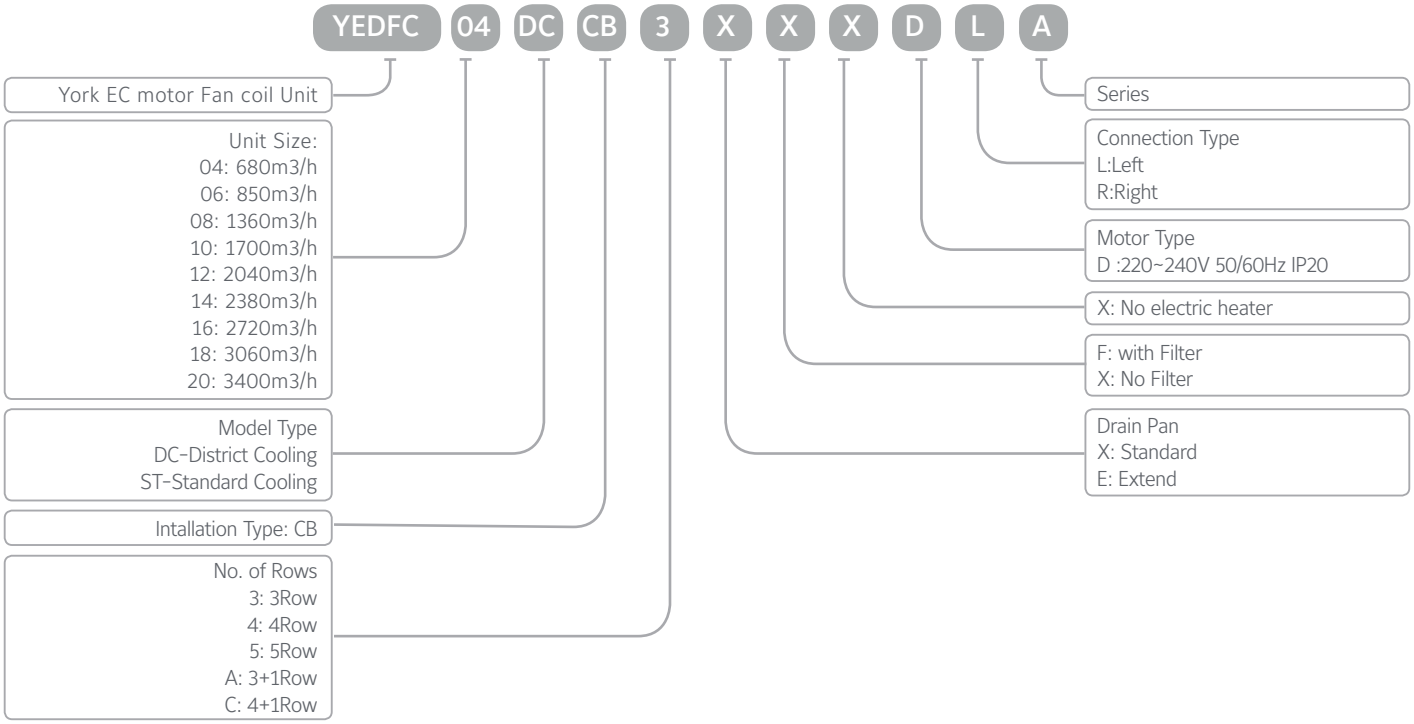
YEDFC high air flow fan coils are available in 9 models, for customers to choose from for standard or district cooling applications, with multiple row types for each model (the 2 pipe system has 3, 4 and 5 rows and 4 pipe system has 3+1 and 4+1 rows). The air flow ranges from 680 m3/h to 4000 m3/h while the cooling capacity ranges from 2.02 kW to 21.15 kW and the external static pressure ranges up to 150 Pa. YEDFC is designed to cater for a wide range of HVAC applications and system types. With integral EC motor technology and wide RPM range design, one model size can be adapted to both low pressure ductless and higher pressure ducted applications. Significant energy savings are delivered by continuously regulating fan speed via a 0 – 10 vdc control signal.

GENERAL	Coils	Standard Cooling Coil	■
		District Cooling Coil	■
		Cooling + Heating Coil	■
	Motor Protection	IP 20 – 50/60Hz	■
OPTIONS	Drain Pan	Standard Drain Pan	■
		Extended Drain Pan	●
		Stainless Steel Drain Pan	●
		Extended Stainless Steel Drain Pan	▲
	Filters & Rails	27mm Rail for Filter	■
		25mm Aluminum Filter + 27mm Rail	▲
SPECIAL REQUESTS	Motor Protection	IP 54 – 50/60 Hz	●
	Powder Coating	Powder Coating of Casing	●

Lengend:
Standard ■
Option ▲
Special request ●

Nomenclature & Feature

NOMENCLATURE



FEATURES AND BENEFITS

Energy saving	Low velocity coil designs are made of expanded copper tubes and corrugated aluminium hydrophilic (blue) fins to achieve high energy exchange efficiency. EC fans can improve the overall efficiency by up to 70% when compared to standard AC motor fan coil units"	Significant energy savings Achieve 0.17watt/CMH and below efficiency requirement at ESP of 100Pascal and beyond, satisfying the Green Mark specification.
Low noise level	Each fan and motor assembly has been dynamically and statically balanced. Variable speed fan operation	Quiet comfort condition results in satisfied occupants.
Easy drainage	Integral dry pan design allows quick and easy drainage of condensation.	Non corrosive design drain pan has positive drainage and permits easy fitment of control valves above extended section. Lowers instalation and maintenance costs.
Compact size & low height	Height is restricted to 390mm	Higher ceiling heights result in optimum comfort to occupants
Ease of installation	Threaded Brass connector is provided for easy piping connection.Drain and purge valves are provided on all units to assist in commissioning.	Reduces installation and commissioning time and cost.
Ease of maintenance	Optional air filter can be provided. Extended drain tray permits ease of inspection	Air filter can protect coil from construction debris during installation. Filters can be easily removed for cleaning. Lowers maintenance cost.

Technical Specifications

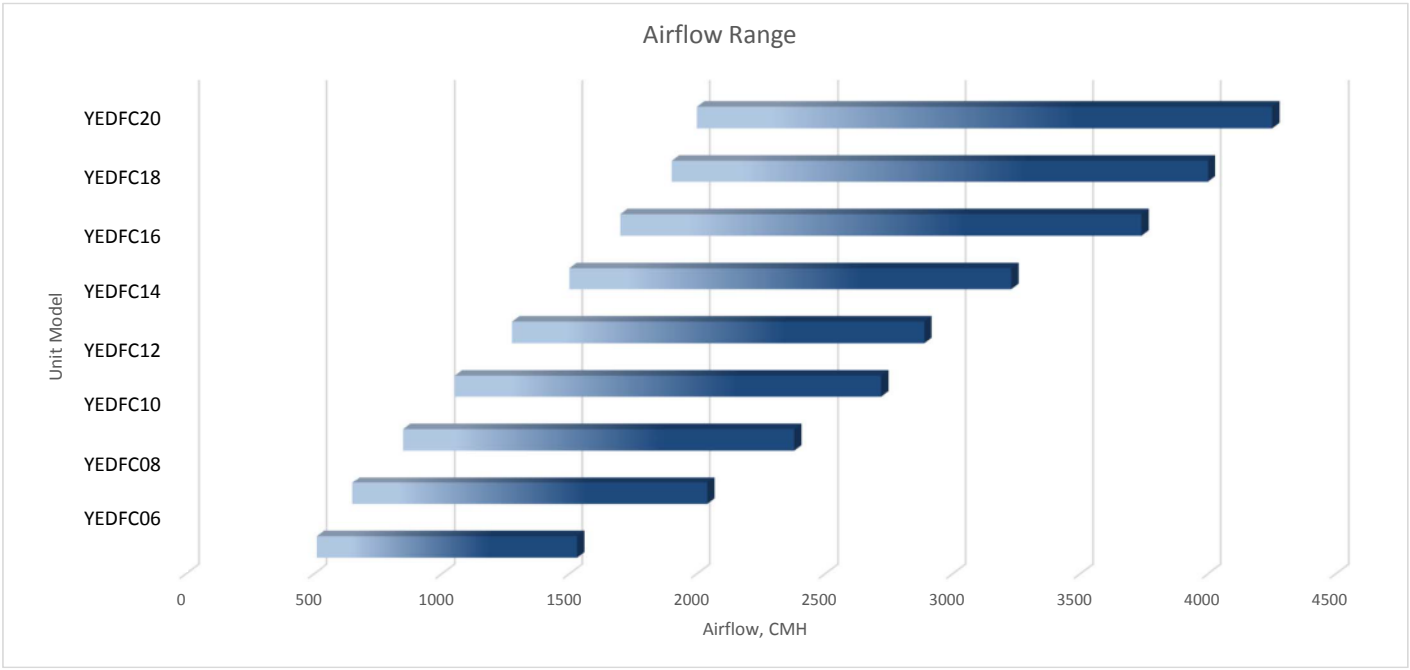
MODEL			YEDFC04	YEDFC06	YEDFC08	YEDFC10	YEDFC12	YEDFC14	YEDFC16	YEDFC18	YEDFC20
Performance											
Nominal Air Flow	H	m^3/h	1020	1500	1700	2125	2550	2975	3400	3825	4000
Nominal Air Flow	M	m^3/h	680	1020	1360	1700	2040	2380	2720	3060	3400
Nominal External Static Pressure	H	Pa	150	150	150	150	150	150	150	150	150
Nominal External Static Pressure	M	Pa	120	120	150	150	150	150	150	150	150
COIL											
Face Area		sq.m	0.19	0.23	0.27	0.31	0.31	0.36	0.40	0.45	0.50
Face Velocity@ High Speed		m/s	1.46	1.78	1.73	1.89	2.27	2.32	2.34	2.38	2.20
Fin Type			Corrugated-louver aluminum fin with hydrophilic coating								
Max Working Pressure		kPa	1600								
Inlet/outlet Water Pipe Diameter	ST 3 Rows	Chiller	Rc 3/4"					1 1/2" Male BSP			
		Hot	Rc 1/2"					Rc 3/4"			
	ST 4 Rows	Chiller	Rc 3/4"			1 " Male BSP		1 1/2" Male BSP			
		Hot	Rc 1/2"			Rc 3/4"					
	DC 3/4/5Rows	Chiller	Rc 3/4"					1 1/2" Male BSP			
		Hot	Rc 1/2"					Rc 3/4"			
Standard COOLING COIL@ High Speed											
Water Flow Rate	3 Rows	L/S	0.215	0.267	0.350	0.411	0.459	0.558	0.619	0.682	0.740
	4 Rows		0.257	0.299	0.442	0.503	0.589	0.644	0.785	0.893	0.922
Water Pressure Drop	3 Rows	kPa	20.0	29.0	24.0	25.9	30.0	25.0	27.0	30.0	34.0
	4 Rows		25.0	16.0	27.5	27.5	37.9	22.0	34.0	36.5	43.0
Water Content	3 Rows	L	0.96	1.15	1.34	1.52	1.52	1.74	1.96	2.17	2.44
	4 Rows		1.28	1.53	1.79	2.03	2.03	2.32	2.62	2.89	3.25
Air Pressure Drop*	3 Rows	Pa	25.9	35.8	34.1	39.7	53.5	55.4	56.2	57.6	50.9
	4 Rows		34.5	47.7	45.5	52.9	71.3	73.8	74.9	76.8	67.9
Nominal Capacity	3 Rows	kW	4.50	5.58	7.31	8.58	9.60	11.66	12.94	14.25	15.46
	4 Rows		5.37	6.24	9.23	10.51	12.30	13.46	16.40	18.66	19.26
District COOLING COIL@High Speed											
Water Flow Rate	3 Rows	L/S	0.099	0.144	0.176	0.218	0.240	0.287	0.321	0.347	0.374
	4 Rows		0.136	0.159	0.226	0.263	0.295	0.362	0.387	0.445	0.470
	5 Rows		0.149	0.171	0.251	0.305	0.346	0.401	0.460	0.512	0.539
Water Pressure Drop	3 Rows	kPa	8.5	14.0	18.0	16.0	19.5	30.0	30.0	29.0	34.0
	4 Rows		17.0	18.0	20.0	20.0	25.1	32.0	38.0	33.0	39.0
	5 Rows		15.0	18.0	20.0	25.0	31.6	35.0	38.0	34.0	41.0
Water Content	3 Rows	L	0.96	1.15	1.34	1.52	1.52	1.74	1.96	2.17	2.44
	4 Rows		1.28	1.53	1.79	2.03	2.03	2.32	2.62	2.89	3.25
	5 Rows		1.60	1.92	2.24	2.54	2.54	2.90	3.27	3.62	4.07
Air Pressure Drop*	3 Rows	Pa	25.9	35.8	34.1	39.7	53.5	55.4	56.2	57.6	50.9
	4 Rows		34.5	47.7	45.5	52.9	71.3	73.8	74.9	76.8	67.9
	5 Rows		43.2	59.6	56.9	66.2	89.2	92.3	93.7	96.0	84.8
Nominal Capacity	3 Rows	kW	3.72	5.42	6.61	8.19	9.03	10.79	12.07	13.06	14.08
	4 Rows		5.13	5.98	8.51	9.90	11.10	13.60	14.56	16.73	17.70
	5 Rows		5.62	6.43	9.43	11.48	13.00	15.09	17.29	19.26	20.27

Page up

MODEL			YEDFC04	YEDFC06	YEDFC08	YEDFC10	YEDFC12	YEDFC14	YEDFC16	YEDFC18	YEDFC20
Performance											
HEATING COIL@High Speed											
Water Flow Rate		L/S	0.158	0.228	0.252	0.317	0.354	0.407	0.456	0.519	0.552
Water Pressure Drop		kPa	9.0	11.0	18.0	25.0	31.5	37.0	51.0	69.0	78.0
Water Content		L	0.32	0.38	0.45	0.51	0.51	0.58	0.65	0.72	0.81
Air Pressure Drop*		Pa	43.2	59.6	56.9	66.2	89.2	92.3	93.7	96.0	84.8
Nominal Capacity		kW	6.59	9.53	10.55	13.23	14.79	17.03	19.04	21.71	23.08
MOTOR											
Type			Electronically Commutated								
No. of Motor			1	1	1	1	1	1	1	1	1
Unit Rating Input Power@High Speed		W	173	251	266	340	481	517	701	848	849
Unit Rating Input Power@Medium Speed		W	100	150	212	251	311	314	453	519	592
Control Signal Input		V	0~10V DC								
Nameplate Volts		V	220~240 V AC								
FAN											
Type			FC DWDI Centrifugal								
Quantity			2	2	2	2	2	2	2	2	2
UNIT DIMENSIONS											
Width		mm	1050	1210	1210	1340	1340	1340	1480	1610	1780
Depth		mm	775	775	775	775	775	815	815	815	815
Height		mm	289	289	340	340	340	390	390	390	390
Weight	3 Rows	kg	33	38	47	53	53	59	64	67	70
	4 Rows		34	39	48	55	55	61	66	69	76
	5 Rows		35	40	49	56	56	63	68	71	78
	3+1 Rows		35	40	49	56	56	63	68	71	78
	4+1 Rows		36	41	50	58	58	64	69	72	80

Note:
1. Cooling Capacity for coils at entering air temperature = 24°C DB, 18°C WB
2. For Standard Cooling Coil: Entering Chilled Water Temperature = 7°C, Leaving Chilled Water Temperature = 12°C
3. For District Cooling Coil: Entering Water Temperature = 5.5°C, Leaving Water Temperature = 14.5°C
4. Standard return air heating conditions for 1R(4+1R unit): air inlet at 20°C DB; hot water inlet/outlet at 70°C/60°C.
5. Unit rating input power is for 4Rows unit.
6. Power Supply Range: 200-240V ~ 1PH 50/60Hz
7. * means APD at dry condition.
8. Unit weight is without water content.

Technical Specifications



MOTOR POWER INPUT(W)

3 Rows Cooling Coil

MODEL	ESP (Pa)	510	680	850	1020	1275	1360	1530	1700	1870	2040	2125	2380	2550	2720	2890	2975	3060	3230	3400	3570	3740	3825	4000	4250
YEDFC04	20	19	30	43	64	114	134	194	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	50	30	44	62	84	132	159	208	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	100	58	70	90	119	176	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	150	-	-	-	169	226	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
YEDFC06	20	-	-	35	47	77	90	117	156	197	250	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	50	-	-	56	66	100	114	147	186	236	292	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	100	-	-	92	112	143	158	194	242	294	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	150	-	-	-	-	207	231	252	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
YEDFC08	20	-	-	-	-	56	65	82	107	136	161	185	245	-	-	-	-	-	-	-	-	-	-	-	-
	50	-	-	-	-	76	86	114	134	165	196	216	280	-	-	-	-	-	-	-	-	-	-	-	-
	100	-	-	-	-	116	129	153	182	219	256	282	360	-	-	-	-	-	-	-	-	-	-	-	-
	150	-	-	-	-	150	163	195	223	261	306	-	-	-	-	-	-	-	-	-	-	-	-	-	-
YEDFC10	20	-	-	-	-	-	-	80	102	124	155	163	223	265	-	-	-	-	-	-	-	-	-	-	-
	50	-	-	-	-	-	-	103	128	155	192	200	262	308	-	-	-	-	-	-	-	-	-	-	-
	100	-	-	-	-	-	-	146	171	204	244	251	320	368	-	-	-	-	-	-	-	-	-	-	-
	150	-	-	-	-	-	-	194	224	260	296	305	379	-	-	-	-	-	-	-	-	-	-	-	-
YEDFC12	20	-	-	-	-	-	-	-	102	124	155	163	223	265	319	-	-	-	-	-	-	-	-	-	-
	50	-	-	-	-	-	-	-	128	155	192	200	262	308	360	-	-	-	-	-	-	-	-	-	-
	100	-	-	-	-	-	-	-	171	204	244	251	320	368	428	-	-	-	-	-	-	-	-	-	-
	150	-	-	-	-	-	-	-	224	260	296	305	379	441	-	-	-	-	-	-	-	-	-	-	-
YEDFC14	20	-	-	-	-	-	-	-	-	-	125	138	180	209	251	286	309	336	-	-	-	-	-	-	-
	50	-	-	-	-	-	-	-	-	-	154	167	214	246	287	332	354	379	-	-	-	-	-	-	-
	100	-	-	-	-	-	-	-	-	-	210	225	279	314	361	408	434	460	-	-	-	-	-	-	-
	150	-	-	-	-	-	-	-	-	-	274	289	346	387	433	483	509	-	-	-	-	-	-	-	-
YEDFC16	20	-	-	-	-	-	-	-	-	-	-	-	157	186	218	257	271	302	341	397	452	-	-	-	-
	50	-	-	-	-	-	-	-	-	-	-	-	193	229	259	301	320	349	390	449	507	-	-	-	-
	100	-	-	-	-	-	-	-	-	-	-	-	268	304	346	383	419	444	494	556	615	-	-	-	-
	150	-	-	-	-	-	-	-	-	-	-	-	340	374	416	469	493	519	579	643	719	-	-	-	-
YEDFC18	20	-	-	-	-	-	-	-	-	-	-	-	-	-	216	252	266	292	337	388	445	506	533	612	-
	50	-	-	-	-	-	-	-	-	-	-	-	-	-	262	307	325	346	395	454	513	591	620	695	-
	100	-	-	-	-	-	-	-	-	-	-	-	-	-	348	393	407	438	482	544	601	671	708	786	-
	150	-	-	-	-	-	-	-	-	-	-	-	-	-	413	456	482	507	560	630	683	759	801	-	-
YEDFC20	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	235	251	278	321	374	408	475	502	566	671
	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	282	309	327	365	414	469	532	558	630	738
	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	364	389	413	453	505	575	634	665	715	-
	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	444	470	496	541	573	641	697	739	801	-

MOTOR POWER INPUT(W)

4 Rows Cooling Coil

MODEL	ESP (Pa)	510	680	850	1020	1275	1360	1530	1700	1870	2040	2125	2380	2550	2720	2890	2975	3060	3230	3400	3570	3740	3825	4000	4250
YEDFC04	20	22	34	51	76	127	152	208	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	50	35	51	69	98	152	178	221	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	100	64	81	103	138	205	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	150	-	-	-	173	245	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
YEDFC06	20	-	-	37	49	80	92	121	162	210	261	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	50	-	-	57	74	102	118	150	192	242	297	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	100	-	-	95	114	145	161	203	248	306	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	150	-	-	-	-	211	235	255	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
YEDFC08	20	-	-	-	-	65	75	95	124	158	187	215	284	-	-	-	-	-	-	-	-	-	-	-	-
	50	-	-	-	-	88	100	132	155	191	227	251	330	-	-	-	-	-	-	-	-	-	-	-	-
	100	-	-	-	-	135	150	177	211	254	297	327	418	-	-	-	-	-	-	-	-	-	-	-	-
	150	-	-	-	-	174	192	226	262	303	355	-	-	-	-	-	-	-	-	-	-	-	-	-	-
YEDFC10	20	-	-	-	-	-	-	86	111	137	170	188	254	301	357	-	-	-	-	-	-	-	-	-	-
	50	-	-	-	-	-	-	111	138	167	201	226	294	348	415	-	-	-	-	-	-	-	-	-	-
	100	-	-	-	-	-	-	157	186	218	259	283	361	419	490	-	-	-	-	-	-	-	-	-	-
	150	-	-	-	-	-	-	203	234	272	311	344	424	481	-	-	-	-	-	-	-	-	-	-	-
YEDFC12	20	-	-	-	-	-	-	-	111	137	170	188	254	201	357	-	-	-	-	-	-	-	-	-	-
	50	-	-	-	-	-	-	-	138	167	201	226	294	348	415	-	-	-	-	-	-	-	-	-	-
	100	-	-	-	-	-	-	-	186	218	259	283	361	419	490	-	-	-	-	-	-	-	-	-	-
	150	-	-	-	-	-	-	-	234	272	311	344	424	481	-	-	-	-	-	-	-	-	-	-	-
YEDFC14	20	-	-	-	-	-	-	-	-	-	128	141	183	214	256	292	316	343	-	-	-	-	-	-	-
	50	-	-	-	-	-	-	-	-	-	157	170	219	251	293	339	361	387	-	-	-	-	-	-	-
	100	-	-	-	-	-	-	-	-	-	215	230	284	321	368	416	443	470	-	-	-	-	-	-	-
	150	-	-	-	-	-	-	-	-	-	279	295	353	395	442	493	519	-	-	-	-	-	-	-	-
YEDFC16	20	-	-	-	-	-	-	-	-	-	-	-	173	205	240	282	298	332	375	436	497	-	-	-	-
	50	-	-	-	-	-	-	-	-	-	-	-	213	252	285	331	352	384	429	493	558	-	-	-	-
	100	-	-	-	-	-	-	-	-	-	-	-	295	334	380	421	461	488	543	612	676	-	-	-	-
	150	-	-	-	-	-	-	-	-	-	-	-	371	408	453	511	537	565	631	701	783	-	-	-	-
YEDFC18	20	-	-	-	-	-	-	-	-	-	-	-	-	-	232	269	294	312	354	425	482	543	577	657	-
	50	-	-	-	-	-	-	-	-	-	-	-	-	-	278	319	341	371	409	466	533	603	635	713	-
	100	-	-	-	-	-	-	-	-	-	-	-	-	-	352	394	426	452	514	562	641	711	736	827	-
	150	-	-	-	-	-	-	-	-	-	-	-	-	-	425	478	502	520	587	651	718	795	848	-	-
YEDFC20	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	248	263	286	331	381	435	498	526	585	701
	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	292	311	338	389	442	500	565	604	681	750
	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	387	405	415	471	561	617	662	695	750	-
	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	472	494	508	550	592	666	725	762	850	-

MOTOR POWER INPUT(W)

5 Rows Cooling Coil

MODEL	ESP (Pa)	510	680	850	1020	1275	1360	1530	1700	1870	2040	2125	2380	2550	2720	2890	2975	3060	3230	3400	3570	3740	3825	4000	4250
YEDFC04	20	23	36	53	80	133	159	218	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	50	37	53	73	103	159	187	229	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	100	67	85	109	144	215	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	150	-	-	-	176	258	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
YEDFC06	20	-	-	42	56	91	106	140	187	242	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	50	-	-	66	85	117	136	172	221	278	341	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	100	-	-	109	131	167	185	233	285	352	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	150	-	-	-	-	243	249	262	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
YEDFC08	20	-	-	-	-	75	86	107	139	177	209	240	318	-	-	-	-	-	-	-	-	-	-	-	-
	50	-	-	-	-	99	112	147	173	212	248	273	347	-	-	-	-	-	-	-	-	-	-	-	-
	100	-	-	-	-	147	163	192	228	269	315	343	438	-	-	-	-	-	-	-	-	-	-	-	-
	150	-	-	-	-	188	203	242	262	324	376	-	-	-	-	-	-	-	-	-	-	-	-	-	-
YEDFC10	20	-	-	-	-	-	-	98	126	152	190	212	287	341	401	-	-	-	-	-	-	-	-	-	-
	50	-	-	-	-	-	-	124	153	183	225	242	320	376	441	-	-	-	-	-	-	-	-	-	-
	100	-	-	-	-	-	-	169	201	238	272	299	379	446	515	-	-	-	-	-	-	-	-	-	-
	150	-	-	-	-	-	-	211	250	282	333	359	446	-	-	-	-	-	-	-	-	-	-	-	-
YEDFC12	20	-	-	-	-	-	-	-	126	152	190	212	287	341	401	-	-	-	-	-	-	-	-	-	-
	50	-	-	-	-	-	-	-	153	183	225	242	320	376	441	-	-	-	-	-	-	-	-	-	-
	100	-	-	-	-	-	-	-	201	238	272	299	379	446	515	-	-	-	-	-	-	-	-	-	-
	150	-	-	-	-	-	-	-	250	282	333	359	446	489	-	-	-	-	-	-	-	-	-	-	-
YEDFC14	20	-	-	-	-	-	-	-	-	-	133	147	191	223	267	305	329	357	-	-	-	-	-	-	-
	50	-	-	-	-	-	-	-	-	-	164	177	228	261	306	353	376	403	-	-	-	-	-	-	-
	100	-	-	-	-	-	-	-	-	-	224	239	296	334	383	434	461	489	-	-	-	-	-	-	-
	150	-	-	-	-	-	-	-	-	-	291	308	368	412	460	513	541	-	-	-	-	-	-	-	-
YEDFC16	20	-	-	-	-	-	-	-	-	-	-	-	181	217	257	295	318	350	395	457	522	-	-	-	-
	50	-	-	-	-	-	-	-	-	-	-	-	217	257	296	340	366	402	454	525	600	-	-	-	-
	100	-	-	-	-	-	-	-	-	-	-	-	300	338	379	436	461	497	552	619	694	-	-	-	-
	150	-	-	-	-	-	-	-	-	-	-	-	378	416	458	520	545	582	640	717	786	-	-	-	-
YEDFC18	20	-	-	-	-	-	-	-	-	-	-	-	-	-	237	277	303	321	365	438	496	559	594	677	-
	50	-	-	-	-	-	-	-	-	-	-	-	-	-	287	328	352	382	421	480	550	621	655	735	-
	100	-	-	-	-	-	-	-	-	-	-	-	-	-	362	406	439	465	530	578	660	733	759	852	-
	150	-	-	-	-	-	-	-	-	-	-	-	-	-	438	493	517	530	604	670	740	818	873	-	-
YEDFC20	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	265	281	306	354	407	465	533	563	626	750
	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	312	333	361	417	473	535	604	646	729	802
	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	414	433	444	504	600	660	709	744	803	-
	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	505	528	543	589	633	713	776	815	910	-

Performance Data

PERFORMANCE RATINGS

District Cooling Coil

Model	Airflow	Rows	Air Inlet Temp(Dry Bulb/Wet Bulb) 24℃/18℃					
			Total Cooling Capacity	Sensible Cooling Capacity	Air Off Temp (Dry Bulb)	Air Off Temp (Wet Bulb)	Water Flow Rate	Water Pressure Drop
	CMH		kW	kW	℃	℃	L/S	kPa
YEDFC04	510	3	2.02	1.63	13.90	13.45	0.054	3.5
	680		2.35	2.10	14.24	14.06	0.062	4.3
	850		3.21	2.62	14.26	13.67	0.085	6.8
	1020		3.76	3.08	14.46	13.79	0.100	8.6
	1360		4.74	3.95	14.82	14.03	0.126	12.4
	1530		5.18	4.35	15.02	14.15	0.138	14.2
	510	4	2.82	1.95	11.92	11.44	0.075	6.3
	680		3.66	2.54	12.20	11.64	0.097	9.6
	850		4.44	3.12	12.40	11.84	0.118	13.3
	1020		5.17	3.66	12.66	12.05	0.137	17.2
	1360		6.46	4.68	13.13	12.46	0.172	25.4
	1530		7.03	5.15	13.36	12.65	0.187	29.5
	510	5	3.06	2.14	10.60	10.60	0.081	5.0
	680		3.98	2.79	10.90	10.90	0.106	8.0
	850		4.85	3.41	11.19	11.13	0.129	11.4
	1020		5.66	4.00	11.48	11.34	0.150	15.2
	1360		7.12	5.10	12.02	11.75	0.189	23.4
	1530		7.78	5.60	12.31	11.95	0.207	27.6
YEDFC06	850	3	3.35	2.66	14.01	13.43	0.089	5.6
	1020		3.95	3.15	14.14	13.51	0.105	7.7
	1275		4.78	3.85	14.36	13.66	0.127	11.0
	1360		5.05	4.07	14.44	13.70	0.134	12.2
	1700		6.04	4.94	14.72	13.90	0.161	17.2
	2040		6.91	5.75	15.00	14.11	0.184	22.3
	850	4	4.56	3.09	12.39	11.59	0.121	10.8
	1020		5.32	3.63	12.63	11.78	0.141	14.4
	1275		6.37	4.40	12.98	12.08	0.169	20.3
	1360		6.69	4.64	13.10	12.17	0.178	22.3
	1700		7.84	5.55	13.57	12.57	0.208	30.1
	2040		8.77	6.36	14.04	12.97	0.233	37.3
	850	5	5.02	3.47	10.96	10.85	0.133	12.9
	1020		5.88	4.10	11.16	11.04	0.156	15.9
	1275		7.09	5.01	11.45	11.32	0.188	20.6
	1360		7.47	5.30	11.55	11.41	0.199	22.2
	1700		8.86	6.43	11.92	11.79	0.236	28.4
	2040		10.06	7.48	12.29	12.16	0.267	34.3
YEDFC08	1275	3	5.28	3.97	14.06	13.18	0.140	10.7
	1360		5.57	4.20	14.14	13.23	0.148	12.1
	1700		6.65	5.10	14.42	13.46	0.177	18.3
	1870		7.15	5.53	14.56	13.57	0.190	21.5
	2040		7.61	5.94	14.70	13.68	0.202	24.8
	2380		8.43	6.72	14.98	13.91	0.224	31.1
	1275	4	6.85	4.85	11.72	11.50	0.182	13.2
	1360		7.21	5.13	11.82	11.59	0.192	14.5
	1700		8.56	6.22	12.19	11.95	0.228	20.2
	1870		9.16	6.73	12.38	12.13	0.243	23.1
	2040		9.72	7.22	12.57	12.30	0.258	25.9
	2380		10.69	8.15	12.94	12.66	0.284	31.1
	1275	5	7.54	5.13	11.15	10.84	0.200	12.8
	1360		7.95	5.43	11.25	10.94	0.211	14.2
	1700		9.47	6.59	11.62	11.31	0.252	20.2
	1870		10.16	7.14	11.81	11.50	0.270	23.2
	2040		10.81	7.67	11.99	11.67	0.287	26.3
	2380		11.95	8.66	12.38	12.04	0.318	32.1
YEDFC10	1530	3	6.58	4.96	13.65	12.97	0.175	10.3
	1700		7.11	5.39	13.87	13.12	0.189	12.0
	2040		8.03	6.17	14.34	13.43	0.213	15.4
	2125		8.21	6.35	14.46	13.52	0.218	16.1
	2380		8.76	6.85	14.81	13.75	0.233	18.3
	2550		9.08	7.15	15.04	13.89	0.241	19.7
	1530	4	7.83	5.51	12.50	11.91	0.208	12.6
	1700		8.49	6.05	12.63	12.07	0.226	14.7
	2040		9.69	7.08	12.92	12.40	0.258	19.2
	2125		9.96	7.33	12.98	12.47	0.265	20.2
	2380		10.72	8.05	13.20	12.71	0.285	23.4
	2550		11.17	8.51	13.34	12.87	0.297	25.4
	1530	5	8.96	6.06	11.35	10.92	0.238	15.7
	1700		9.75	6.64	11.53	11.09	0.259	18.4
	2040		11.20	7.72	11.91	11.41	0.298	23.9
	2125		11.54	7.98	12.01	11.50	0.307	25.2
	2380		12.48	8.73	12.28	11.74	0.332	29.3
	2550		13.05	9.20	12.48	11.92	0.347	31.9

District Cooling Coil

Model	Airflow	Rows	Air Inlet Temp(Dry Bulb/Wet Bulb) 24℃/18℃					
			Total Cooling Capacity	Sensible Cooling Capacity	Air Off Temp (Dry Bulb)	Air Off Temp (Wet Bulb)	Water Flow Rate	Water Pressure Drop
	CMH		kW	kW	℃	℃	L/S	kPa
YEDFC12 YEDFC12	1700	3	7.11	5.39	13.87	13.12	0.189	12.0
	1870		7.59	5.79	14.11	13.27	0.202	13.7
	2040		8.03	6.17	14.34	13.43	0.213	15.4
	2380		8.79	6.85	14.81	13.73	0.234	18.3
	2550		9.10	7.15	15.04	13.88	0.242	19.7
	2720		9.37	7.42	15.29	14.04	0.249	21.0
	1700	4	8.49	6.05	12.63	12.07	0.226	14.7
	1870		9.11	6.57	12.78	12.24	0.242	17.0
	2040		9.69	7.08	12.92	12.40	0.258	19.2
	2380		10.72	8.05	13.20	12.71	0.285	23.4
	2550		11.17	8.51	13.34	12.87	0.297	25.4
	2720		11.57	8.96	13.48	13.03	0.308	27.3
	1700	5	9.75	6.64	11.53	11.09	0.259	18.4
	1870		10.50	7.19	11.72	11.25	0.279	21.1
	2040		11.20	7.72	11.91	11.41	0.298	23.9
	2380		12.48	8.73	12.28	11.74	0.332	29.3
	2550		13.05	9.20	12.48	11.92	0.347	31.9
	2720		13.58	9.66	12.66	12.08	0.361	34.4
YEDFC14	2040	3	8.34	6.18	14.43	13.30	0.222	19.6
	2380		9.36	7.00	14.71	13.49	0.249	23.7
	2550		9.83	7.38	14.85	13.58	0.261	25.7
	2720		10.27	7.75	15.00	13.68	0.273	27.6
	2975		10.87	8.28	15.21	13.83	0.289	30.4
	3060		11.06	8.45	15.27	13.87	0.294	31.3
	2040	4	10.59	7.32	12.54	11.82	0.281	20.8
	2380		11.84	8.34	12.81	12.10	0.315	25.2
	2550		12.42	8.82	12.95	12.23	0.330	27.3
	2720		12.96	9.29	13.09	12.37	0.344	29.4
	2975		13.69	9.96	13.31	12.59	0.364	32.4
	3060		13.92	10.18	13.37	12.65	0.370	33.3
	2040	5	11.72	7.80	11.79	11.08	0.312	22.9
	2380		13.17	8.89	12.07	11.36	0.350	27.8
	2550		13.84	9.41	12.21	11.50	0.368	30.2
	2720		14.47	9.92	12.35	11.64	0.385	32.6
	2975		15.34	10.65	12.57	11.87	0.408	36.0
	3060		15.62	10.89	12.63	11.93	0.415	37.1
YEDFC16	2380	3	9.67	7.56	14.07	13.38	0.257	20.5
	2720		10.61	8.31	14.45	13.58	0.282	24.0
	2975		11.25	8.82	14.73	13.72	0.299	26.5
	3060		11.44	8.97	14.83	13.77	0.304	27.3
	3400		12.16	9.55	15.22	13.97	0.323	30.4
	3570		12.45	9.81	15.41	14.08	0.331	31.7
	2380	4	10.94	7.92	13.37	12.59	0.291	23.1
	2720		11.86	8.76	13.71	12.89	0.315	26.6
	2975		12.53	9.37	13.94	13.08	0.333	29.2
	3060		13.23	9.79	13.78	12.94	0.352	32.1
	3400		14.66	10.84	13.82	12.96	0.390	38.5
	3570		15.63	11.56	13.66	12.87	0.415	43.1
	2380	5	13.51	8.98	11.95	11.17	0.359	24.7
	2720		14.93	10.10	12.14	11.42	0.397	29.4
	2975		15.92	10.92	12.28	11.61	0.423	32.9
	3060		16.23	11.19	12.32	11.67	0.431	34.0
	3400		17.39	12.23	12.51	11.91	0.462	38.4
	3570		17.92	12.74	12.60	12.04	0.476	40.5
YEDFC18	2720	3	10.79	8.46	14.28	13.50	0.287	20.7
	3060		11.65	9.24	14.56	13.69	0.310	23.7
	3400		12.39	9.95	14.85	13.88	0.329	26.4
	3570		12.71	10.28	15.00	13.99	0.338	27.6
	3825		13.15	10.76	15.20	14.13	0.350	29.4
	4000		13.41	11.06	15.35	14.23	0.356	30.4
	2720	4	13.36	9.34	13.03	12.18	0.355	22.0
	3060		14.55	10.33	13.22	12.39	0.387	25.7
	3400		15.64	11.28	13.40	12.58	0.416	29.2
	3570		16.13	11.74	13.50	12.70	0.429	30.9
	3825		16.83	12.41	13.64	12.85	0.447	33.4
	4000		17.28	12.86	13.73	12.94	0.459	35.0
	2720	5	15.42	10.22	12.00	11.18	0.410	23.0
	3060		16.78	11.23	12.28	11.43	0.446	26.6
	3400		18.01	12.18	12.56	11.68	0.479	30.2
	3570		18.58	12.63	12.70	11.80	0.494	31.9
	3825		19.36	13.28	12.91	11.99	0.515	34.3
	4000		19.86	13.70	13.06	12.11	0.528	35.9
YEDFC20	2890	3	11.48	8.79	14.49	13.49	0.305	23.9
	3060		11.95	9.21	14.59	13.57	0.318	25.6
	3400		12.84	10.03	14.78	13.73	0.341	28.9
	3740		13.62	10.80	14.97	13.89	0.362	32.1
	3825		13.81	10.99	15.02	13.93	0.367	32.9
	4250		14.63	11.88	15.26	14.13	0.389	36.4
	2890	4	14.69	10.08	13.09	12.10	0.390	28.1
	3060		15.25	10.58	13.19	12.23	0.405	30.0
	3400		16.29	11.54	13.39	12.47	0.433	33.7
	3740		17.19	12.47	13.58	12.72	0.457	37.0
	3825		17.39	12.69	13.63	12.78	0.462	37.8
	4250		18.31	13.78	13.86	13.07	0.487	41.4
	2890	5	16.20	10.89	11.96	11.26	0.431	29.2
	3060		16.91	11.44	12.06	11.37	0.449	31.1
	3400		18.29	12.51	12.25	11.57	0.486	35.0
	3740		19.49	13.55	12.43	11.79	0.518	38.6
	3825		19.78	13.80	12.48	11.84	0.526	39.5
	4250		21.15	15.02	12.71	12.10	0.562	43.8

Note: Chilled water inlet / outlet temperature is 5.5/ 14.5C, Unit ESP at 50Pa.

PERFORMANCE RATINGS

Standard Cooling Coil

Model	Airflow	Rows	Air Inlet Temp(Dry Bulb/Wet Bulb) 24℃/18℃					
			Total Cooling Capacity	Sensible Cooling Capacity	Air Off Temp (Dry Bulb)	Air Off Temp (Wet Bulb)	Water Flow Rate	Water Pressure Drop
	CMH		kW	kW	℃	℃	L/S	kPa
YEDFC04	510	3	2.74	1.85	12.5	11.6	0.131	8.7
	680		3.44	2.40	12.8	12.1	0.165	12.7
	850		4.05	2.91	13.2	12.4	0.194	16.7
	1020		4.54	3.38	13.5	12.8	0.217	20.3
	1360		5.22	4.23	14.2	13.6	0.250	25.9
	1530		5.40	4.59	14.5	14.0	0.258	27.5
	510	4	3.11	2.07	11.0	10.6	0.149	10.1
	680		3.91	2.70	11.3	11.1	0.187	14.6
	850		4.76	3.29	11.6	11.3	0.228	20.3
	1020		5.41	3.86	11.9	11.7	0.259	25.3
	1360		6.78	4.90	12.5	12.1	0.324	37.6
	1530		7.39	5.37	12.8	12.3	0.354	43.8
YEDFC06	850	3	4.33	3.07	12.5	11.9	0.207	20.3
	1020		5.04	3.62	12.7	12.1	0.241	25.1
	1275		6.01	4.42	12.9	12.4	0.288	32.3
	1360		6.31	4.67	13.0	12.5	0.302	34.7
	1700		7.37	5.64	13.4	12.9	0.353	43.7
	2040		8.21	6.53	13.8	13.3	0.393	51.4
	850	4	4.83	3.35	11.4	11.2	0.231	9.5
	1020		5.65	3.96	11.6	11.3	0.270	13.1
	1275		6.78	4.85	11.9	11.7	0.324	18.9
	1360		7.13	5.13	12.0	11.7	0.341	21.0
	1700		8.41	6.22	12.3	12.1	0.402	29.4
	2040		9.47	7.22	12.7	12.5	0.453	37.3
YEDFC08	1275	3	5.86	3.61	15.1	12.7	0.278	17.2
	1360		6.17	3.82	15.1	12.7	0.292	18.6
	1700		7.35	4.63	15.4	13.0	0.348	24.2
	1870		7.89	5.01	15.7	13.2	0.367	27.0
	2040		8.39	5.37	15.8	13.4	0.390	29.7
	2380		9.27	6.06	16.2	13.7	0.426	34.8
	1275	4	7.43	5.03	11.5	11.0	0.356	18.3
	1360		7.82	5.33	11.6	11.1	0.374	20.1
	1700		9.29	6.47	12.0	11.5	0.444	27.8
	1870		9.94	7.01	12.2	11.7	0.476	31.6
	2040		10.55	7.53	12.3	11.9	0.505	35.4
	2380		11.60	8.52	12.7	12.3	0.555	42.4
YEDFC10	1530	3	6.78	4.30	15.2	13.0	0.324	19.1
	1700		7.36	4.70	15.4	13.2	0.352	21.2
	2040		8.39	5.47	15.6	13.4	0.401	25.1
	2125		8.63	5.65	15.7	13.1	0.413	26.1
	2380		9.28	6.17	15.9	13.5	0.444	28.7
	2550		9.66	6.49	16.0	13.6	0.462	30.3
	1530	4	7.87	5.32	13.1	12.0	0.377	15.2
	1700		8.66	5.83	13.3	12.1	0.414	18.5
	2040		10.20	6.83	13.5	12.2	0.488	25.9
	2125		10.57	7.06	13.6	12.2	0.506	27.8
	2380		11.66	7.76	13.8	12.3	0.558	34.0
	2550		12.37	8.20	13.9	12.4	0.592	38.4
YEDFC12	1700	3	7.36	4.70	15.4	12.8	0.352	21.2
	1870		7.89	5.09	15.5	13.0	0.378	23.2
	2040		8.39	5.47	15.6	12.9	0.401	25.1
	2380		9.28	6.17	15.9	13.5	0.444	28.7
	2550		9.66	6.49	16.0	13.6	0.462	30.3
	2720		10.01	6.81	16.2	13.8	0.479	31.7

Standard Cooling Coil

Model	Airflow	Rows	Air Inlet Temp(Dry Bulb/Wet Bulb) 24℃/18℃					
			Total Cooling Capacity	Sensible Cooling Capacity	Air Off Temp (Dry Bulb)	Air Off Temp (Wet Bulb)	Water Flow Rate	Water Pressure Drop
	CMH		kW	kW	℃	℃	L/S	kPa
YEDFC12	1700	4	8.66	5.83	13.2	12.0	0.414	18.5
	1870		9.44	6.34	13.3	12.1	0.452	22.1
	2040		10.20	6.83	13.4	12.1	0.488	25.9
	2380		11.66	7.76	13.7	12.3	0.558	34.0
	2550		12.37	8.20	13.8	12.3	0.592	38.4
	2720		13.05	8.63	14.0	12.4	0.624	42.8
YEDFC14	2040	3	9.28	6.62	13.5	12.6	0.444	16.8
	2380		10.30	7.51	13.8	12.9	0.493	20.1
	2550		10.76	7.94	13.9	13.0	0.515	21.7
	2720		11.18	8.34	14.1	13.2	0.535	23.2
	2975		11.74	8.92	14.3	13.4	0.562	25.3
	3060		11.91	9.11	14.4	13.4	0.570	26.0
	2040	4	10.49	7.27	12.4	11.7	0.502	14.3
	2380		11.73	8.27	12.7	12.0	0.561	17.3
	2550		12.30	8.75	12.8	12.2	0.589	18.8
	2720		12.83	9.21	12.9	12.3	0.614	20.2
	2975		13.55	9.88	13.2	12.5	0.648	22.3
	3060		13.77	10.09	13.2	12.6	0.659	22.9
YEDFC16	2380	3	10.28	7.34	14.0	12.9	0.492	18.1
	2720		11.31	8.23	14.2	13.1	0.541	21.4
	2975		12.01	8.86	14.4	13.2	0.575	23.7
	3060		12.23	9.07	14.4	13.3	0.585	24.5
	3400		13.03	9.86	14.6	13.5	0.623	27.3
	3570		13.72	10.62	14.4	13.5	0.656	29.9
	2380	4	13.09	8.93	11.9	11.3	0.626	23.5
	2720		14.38	9.97	12.2	11.6	0.688	27.4
	2975		15.24	10.71	12.4	11.8	0.729	30.1
	3060		15.51	10.95	12.4	11.9	0.742	31.0
	3400		16.50	11.86	12.7	12.2	0.789	34.3
	3570		16.94	12.30	12.9	12.3	0.811	35.9
YEDFC18	2720	3	11.77	8.70	13.8	12.9	0.563	21.6
	3060		12.56	9.44	14.1	13.2	0.601	24.1
	3400		13.28	10.15	14.5	13.5	0.635	26.6
	3570		13.61	10.49	14.6	13.6	0.651	27.7
	3825		14.34	11.19	14.7	13.7	0.686	30.3
	4000		14.66	11.54	14.8	13.8	0.701	31.5
	2720	4	14.99	10.05	12.2	11.4	0.717	24.8
	3060		16.30	11.03	12.5	11.6	0.780	28.7
	3400		17.48	11.96	12.8	11.9	0.836	32.5
	3570		18.02	12.40	12.9	12.0	0.862	34.3
	3825		18.77	13.03	13.1	12.2	0.898	36.9
	4000		19.24	13.44	13.3	12.3	0.921	38.6
YEDFC20	2890	3	13.10	9.52	13.5	12.7	0.627	25.6
	3060		13.52	9.92	13.6	12.8	0.647	27.0
	3400		14.34	10.67	14.0	13.1	0.686	29.9
	3740		15.08	11.39	14.3	13.3	0.722	32.6
	3825		15.23	11.57	14.3	13.4	0.729	33.1
	4250		16.44	12.66	14.5	13.5	0.787	37.8
	2890	4	15.81	10.49	12.7	11.6	0.756	30.1
	3060		16.45	11.01	12.8	11.7	0.787	32.3
	3400		17.62	12.03	12.9	12.0	0.843	36.6
	3740		18.65	13.00	13.1	12.2	0.892	40.6
	3825		18.88	13.24	13.2	12.3	0.903	41.5
	4250		19.96	14.38	13.4	12.6	0.955	45.9

Note: Chilled water inlet/ outlet temperature is 7/ 12C, unit ESP at 50Pa.

PERFORMANCE RATINGS

Heating Coil

Model	Airflow	Air Inlet Temp(Dry Bulb) 20℃			
		Total Cooling Capacity	Air Off Temp (Dry Bulb/Wet Bulb)	Water Flow Rate	Water Pressure Drop
	m^3/h	kW	℃	L/S	kPa
YEDFC04	510	3.81	42.2	0.091	2.7
	680	4.86	41.2	0.116	4.7
	850	5.78	40.2	0.138	6.8
	1020	6.59	39.2	0.158	9.0
	1360	7.86	37.2	0.188	13.1
	1530	8.32	36.2	0.199	14.8
YEDFC06	850	6.50	42.7	0.156	4.8
	1020	7.46	41.7	0.178	6.5
	1275	8.67	40.2	0.207	9.0
	1360	9.02	39.7	0.216	9.8
	1500	9.53	38.9	0.228	11.0
	1700	10.12	37.7	0.242	12.5
	2040	10.75	35.7	0.257	14.2
YEDFC08	1275	8.99	40.9	0.215	11.7
	1360	9.36	40.4	0.224	13.1
	1700	10.54	38.4	0.252	18.0
	1870	10.96	37.4	0.262	19.9
	2040	11.26	36.4	0.269	21.4
	2380	11.52	34.4	0.276	22.6
YEDFC10	1530	10.43	40.2	0.250	15.4
	1700	11.31	39.8	0.271	18.2
	2040	12.87	38.7	0.308	23.6
	2125	13.23	38.5	0.317	25.0
	2380	14.21	37.7	0.340	28.9
	2550	14.79	37.2	0.354	31.3
YEDFC12	1700	11.31	39.8	0.271	18.3
	1870	12.12	39.3	0.290	21.1
	2040	12.87	38.7	0.308	23.8
	2380	14.21	37.7	0.340	29.1
	2550	14.79	37.2	0.354	31.5
	2720	15.31	36.7	0.366	33.8
YEDFC14	2040	13.59	39.8	0.325	26.6
	2380	15.04	38.8	0.360	32.0
	2720	15.68	37.1	0.375	34.6
	2975	16.27	36.2	0.389	37.0
	3060	17.03	36.5	0.407	40.3
	3230	17.26	35.9	0.413	41.3
YEDFC16	2380	15.76	39.7	0.377	35.8
	2720	17.08	38.7	0.409	41.6
	2975	17.92	37.9	0.429	45.5
	3060	18.18	37.6	0.435	46.8
	3400	19.04	36.6	0.456	51.0
	3740	19.39	35.4	0.464	52.8
YEDFC18	2720	18.44	40.1	0.441	51.0
	3060	19.71	39.1	0.472	57.7
	3400	20.74	38.1	0.496	63.4
	3570	21.17	37.6	0.506	65.8
	3825	21.71	36.9	0.519	69.0
	4000	22.00	36.3	0.526	70.7
YEDFC20	2890	19.88	40.4	0.476	58.8
	3060	20.53	39.9	0.491	62.5
	3400	21.66	38.9	0.518	69.2
	3740	22.55	37.9	0.539	74.6
	3825	22.74	37.7	0.544	75.8
	4000	23.08	37.1	0.552	78.0
	4250	23.46	36.4	0.561	80.5

Note: Hot water inlet/ outlet temperature is 70/ 60 C

Acoustics

OCTAVE BAND SOUND POWER LEVEL

4 Rows Cooling Coil

Model	ESP (Pa)	Air Flow (m^3/h)	Ducted Discharge Sound									Casing Radiated Free Inlet Sound								
			63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	dB(A)	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	dB(A)
YEDFC04	20	680	57	55	50	48	44	46	39	33	51	60	56	54	54	51	47	43	38	56
	50		57	57	51	50	46	48	41	34	53	61	59	57	56	54	50	46	40	59
	100		57	58	52	51	47	50	44	36	55	63	62	60	59	57	53	49	43	62
	120		57	58	53	52	48	50	45	36	56	63	62	60	60	58	54	50	44	62
YEDFC06	20	1020	59	52	54	51	50	45	39	37	54	61	60	58	57	53	49	40	37	58
	50		59	53	53	51	51	46	40	37	55	62	63	61	60	57	53	44	39	62
	100		59	53	54	52	52	46	40	37	55	63	65	64	63	60	56	47	41	65
	120		60	54	55	53	52	47	40	37	56	65	66	66	64	62	58	49	43	66
YEDFC08	20	1360	58	51	58	49	48	44	37	34	54	61	61	58	56	54	50	45	36	59
	50		58	54	56	50	50	46	39	36	54	62	64	61	59	58	54	49	40	62
	100		59	55	57	49	50	47	40	37	55	63	66	64	61	60	57	52	44	65
	150		60	55	57	50	50	47	40	37	55	64	67	67	63	62	59	54	46	67
YEDFC10	20	1700	61	59	57	53	53	50	44	42	58	64	67	65	58	57	56	49	41	63
	50		62	60	58	53	54	51	46	44	58	66	70	68	59	59	58	52	44	65
	100		62	60	58	53	54	51	47	45	59	67	71	70	61	61	60	55	47	67
	150		63	60	59	53	55	52	47	45	59	68	72	72	62	62	62	57	49	69
YEDFC12	20	2040	63	62	61	56	56	53	49	47	61	66	70	69	60	60	59	53	46	66
	50		63	63	62	56	57	54	50	48	62	68	72	71	62	62	61	55	49	68
	100		64	63	62	56	57	54	50	49	62	69	73	73	63	63	63	58	52	70
	150		65	63	63	57	58	55	51	49	62	69	74	75	64	64	64	60	54	71
YEDFC14	20	2380	62	64	62	55	57	54	49	45	62	66	69	65	61	60	55	52	45	65
	50		63	65	64	56	59	55	50	46	63	68	72	69	64	62	58	55	49	67
	100		64	67	66	57	60	56	51	48	64	70	75	72	66	65	60	58	53	70
	150		65	68	66	57	60	56	51	48	64	72	76	74	67	66	62	60	55	71
YEDFC16	20	2720	64	62	63	57	56	53	53	46	62	66	71	69	60	62	56	52	51	66
	50		65	63	64	57	56	53	53	47	62	68	73	72	61	64	58	54	53	68
	100		67	64	66	58	57	54	54	48	63	70	76	75	63	66	61	57	56	71
	150		68	65	67	59	58	55	55	49	64	72	77	77	65	68	63	58	58	73
YEDFC18	20	3060	67	64	65	61	61	55	55	52	65	67	71	67	63	65	60	57	53	69
	50		67	64	66	61	61	56	56	53	66	69	73	69	65	67	62	59	55	71
	100		69	65	67	62	63	57	57	54	67	71	75	72	67	69	64	62	58	73
	150		70	66	68	62	64	58	58	55	68	73	77	74	68	70	66	63	59	74
YEDFC20	20	3400	67	65	65	63	62	56	56	52	66	69	75	70	63	63	59	57	52	68
	50		67	65	65	63	62	55	56	52	66	70	76	71	64	65	60	58	54	70
	100		69	66	66	64	63	56	56	52	67	72	78	73	66	66	62	60	56	72
	150		70	67	67	65	64	57	57	53	68	74	80	75	67	68	64	62	58	73

4 Rows Cooling Coil

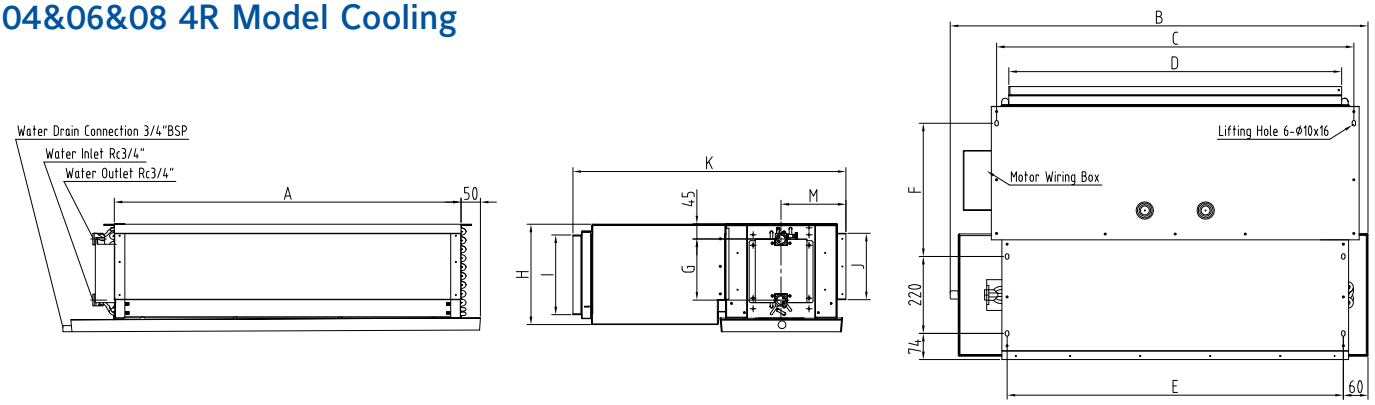
Page up

Model	ESP (Pa)	Air Flow (m^3/h)	Ducted Discharge Sound									Casing Radiated Free Inlet Sound								
			63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	dB(A)	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	dB(A)
YEDFC04	20	1020	60	62	59	54	49	49	44	42	57	63	62	60	60	58	54	50	45	62
	50		60	63	60	55	51	50	46	42	58	64	64	62	62	60	56	52	47	65
	100		60	64	60	56	53	51	47	44	59	66	66	65	64	62	58	54	50	67
	150		60	64	61	56	54	52	49	44	60	67	68	66	66	63	60	56	51	68
YEDFC06	20	1500	61	57	59	57	57	52	47	44	60	63	65	64	63	60	56	49	45	65
	50		61	57	60	58	57	52	47	44	61	64	67	66	65	62	59	51	47	67
	100		62	58	61	59	58	53	47	44	62	66	69	68	67	64	61	54	49	69
	150		63	58	62	59	58	53	47	44	62	67	70	70	68	66	62	56	50	70
YEDFC08	20	1700	59	56	61	53	53	49	43	40	58	62	64	61	59	58	53	49	42	62
	50		59	57	61	53	54	50	44	41	58	63	66	64	61	60	57	52	45	65
	100		60	58	61	53	54	50	44	41	59	65	68	67	63	63	59	55	49	67
	150		61	58	62	53	54	51	44	41	59	66	69	69	64	64	61	57	51	69
YEDFC10	20	2125	63	63	62	57	57	54	50	48	62	67	71	70	61	61	60	54	48	67
	50		64	63	63	57	58	55	51	49	62	68	72	72	62	63	61	56	50	69
	100		64	64	63	57	58	55	51	50	63	69	74	74	64	64	63	59	53	71
	150		65	63	64	57	58	56	52	50	63	70	74	75	65	65	64	60	55	72
YEDFC12	20	2550	65	66	67	61	61	58	55	54	66	69	74	74	64	64	63	58	53	71
	50		66	66	67	61	61	58	55	54	66	70	75	75	65	66	64	60	55	72
	100		66	67	68	61	61	59	56	55	67	71	76	77	67	67	66	62	58	74
	150		67	66	68	61	62	59	56	55	67	71	77	79	68	68	67	64	59	75
YEDFC14	20	2975	62	66	65	58	60	57	52	48	64	67	71	68	64	63	58	55	49	67
	50		63	67	67	58	61	57	53	50	65	69	74	71	65	64	60	58	52	69
	100		65	68	68	59	62	58	54	51	66	71	76	73	67	66	62	60	55	71
	150		66	69	68	59	62	59	54	51	66	73	78	75	68	67	63	62	57	73
YEDFC16	20	3400	67	66	68	61	61	58	58	53	67	69	75	74	64	67	61	57	57	71
	50		67	67	69	62	61	58	58	53	67	70	76	76	65	68	63	59	59	73
	100		69	68	71	63	62	59	59	55	68	72	78	78	66	70	65	61	61	75
	150		70	69	72	64	63	60	61	56	69	74	80	80	68	72	67	62	63	76
YEDFC18	20	3825	69	67	70	64	65	59	60	58	69	70	75	71	66	69	64	62	59	73
	50		70	67	71	65	66	60	61	59	70	71	76	73	68	70	65	63	61	74
	100		71	68	72	65	67	61	62	60	71	73	78	75	69	72	67	66	63	76
	150		73	69	73	66	68	62	63	61	72	75	80	77	70	73	69	67	64	77
YEDFC20	20	4000	69	69	69	67	66	59	61	58	70	72	78	73	66	67	62	61	57	72
	50		70	69	69	67	66	60	61	58	70	73	79	75	67	68	64	62	59	73
	100		71	70	70	67	67	60	61	58	71	75	81	77	68	69	66	64	61	75
	150		73	71	71	68	68	62	63	59	72	77	82	79	70	71	67	66	63	77

Notes:
1.Sound data tested under 230V/50Hz norminal power supply, and in accordance with AHRI 260.
2.Sound levels are expressed in decibels, dB RE:1×10−12 watts.

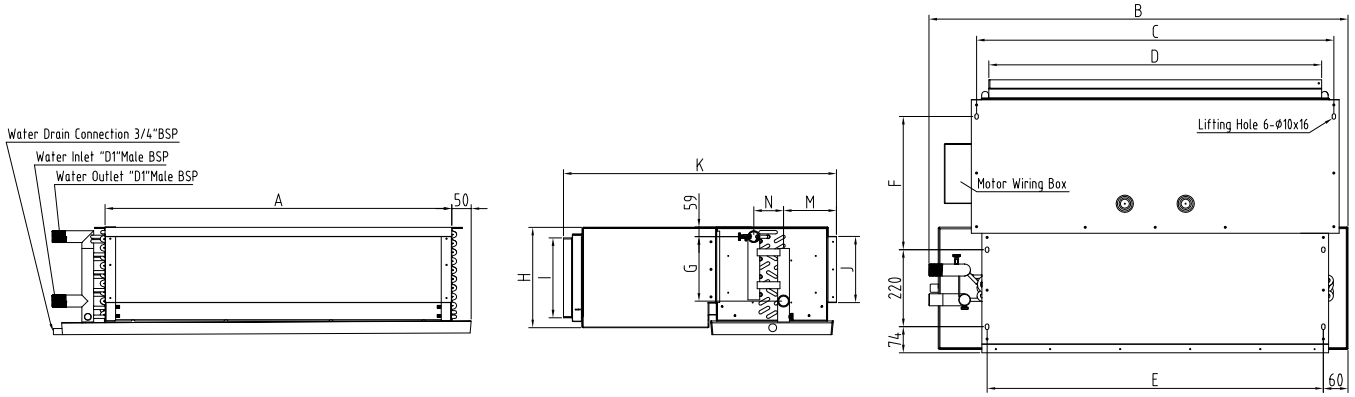
Units Drawings ST type

04&06&08&10&12 3R Model Cooling
04&06&08 4R Model Cooling



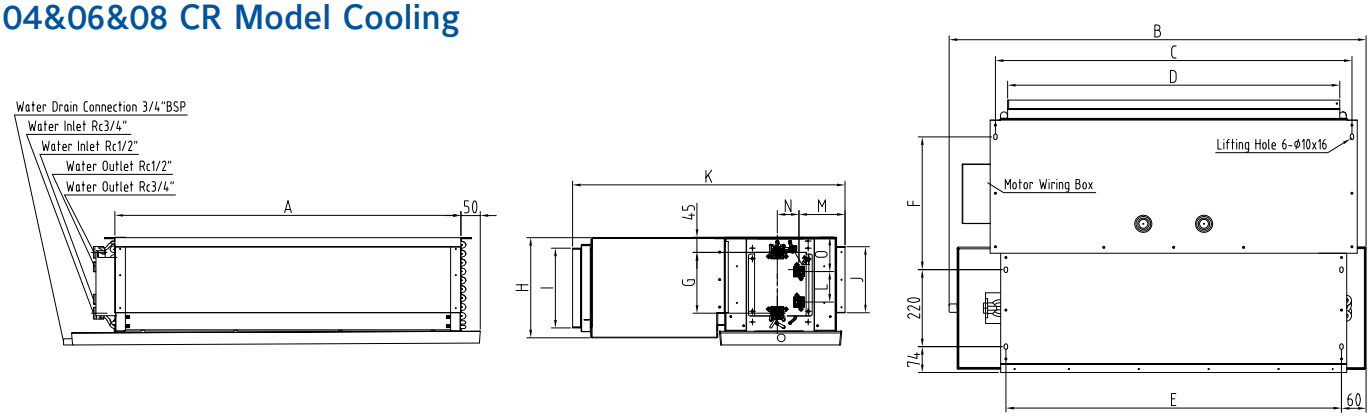
Size	A	B	B1	C	D	E	F	G	H	I	J	K	M
04 ST3/4R	830	1050	1210	860	768	800	380	173	289	225	190	775	184
06 ST3/4R	990	1210	1340	1020	928	960	380	173	289	225	190	775	184
08 ST3/4R	990	1210	1340	1020	928	960	380	215	340	275	240	775	184
10 ST3R	1120	1340	1480	1150	1058	1090	380	215	340	275	240	775	184
12 ST3R	1120	1340	1480	1150	1058	1090	380	215	340	275	240	775	184

14&16&18&20 3R Model Cooling
10&12&14&16&18&20 4R Model Cooling



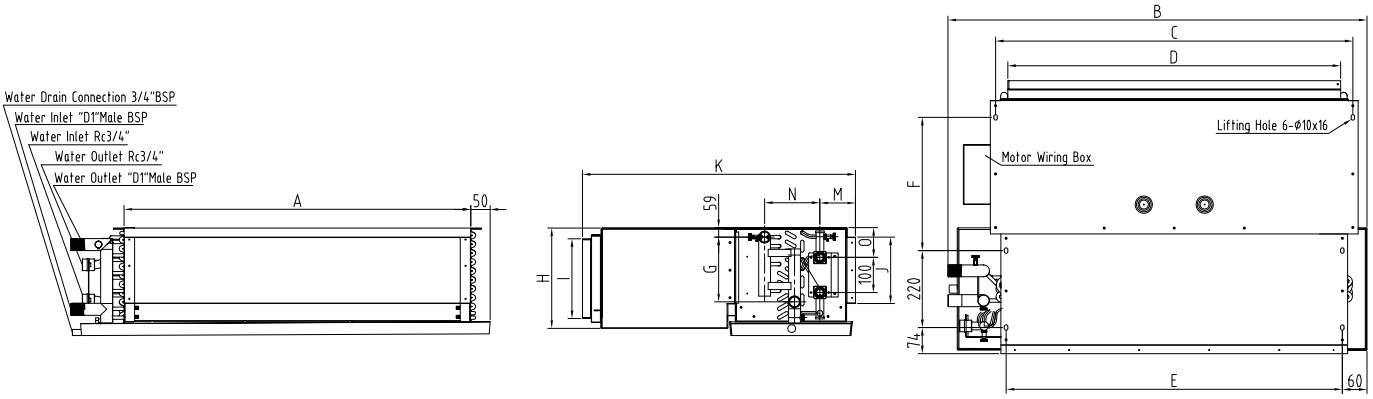
Size	A	B	B1	C	D	E	F	G	H	I	J	K	M3R	M4R	N3R	N4R	D1
10 ST4R	1120	1340	1480	1150	1058	1090	380	218	340	275	240	775	/	157	/	74	25
12 ST4R	1120	1340	1480	1150	1058	1090	380	218	340	275	240	775	/	157	/	74	25
14 ST3/4R	1120	1340	1480	1150	1058	1090	420	253	390	325	280	815	148	157	56	74	38
16 ST3/4R	1260	1480	1610	1290	1198	1230	420	253	390	325	280	815	148	157	56	74	38
18 ST3/4R	1390	1610	1710	1420	1328	1360	420	253	390	325	280	815	148	157	56	74	38
20 ST3/4R	1560	1780	1880	1590	1498	1530	420	253	390	325	280	815	148	157	56	74	38

04&06&08&10&12 AR Model Cooling
04&06&08 CR Model Cooling



Size	A	B	B1	C	D	E	F	G	H	I	J	K	L	O3+1R	O4+1R	M3+1R	M4+1R	N3+1R	N4+1R
04 STA/CR	830	1050	1210	860	768	800	380	173	289	225	190	775	92	96	106	131	123	62	70
06 STA/CR	990	1210	1340	1020	928	960	380	173	289	225	190	775	92	96	106	131	123	62	70
08 STA/CR	990	1210	1340	1020	928	960	380	215	340	275	240	775	134	96	106	131	123	62	70
10 STAR	1120	1340	1480	1150	1058	1090	380	215	340	275	240	775	134	96	106	131	123	62	70
12 STAR	1120	1340	1480	1150	1058	1090	380	215	340	275	240	775	134	96	106	131	123	62	70

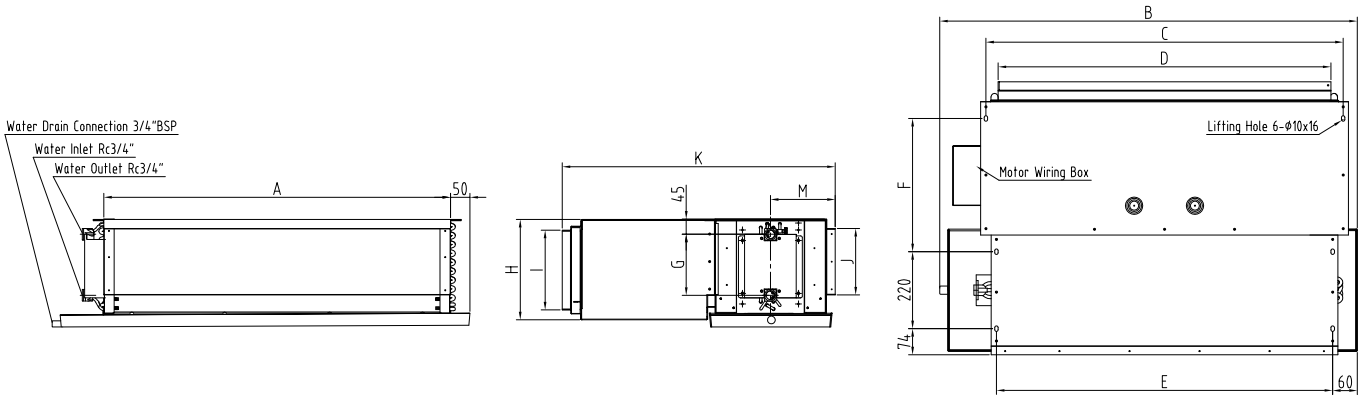
14&16&18&20 AR Model Cooling
10&12&14&16&18&20 CR Model Cooling



Size	A	B	B1	C	D	E	F	G	H	I	J	K	O3+1R	O4+1R	M3+1R	M4+1R	N3+1R	N4+1R	D1
10 STCR	1120	1340	1480	1150	1058	1090	380	218	340	275	240	775	/	121	/	142	/	98	25
12 STCR	1120	1340	1480	1150	1058	1090	380	218	340	275	240	775	/	121	/	142	/	98	25
14 STA/CR	1120	1340	1480	1150	1058	1090	420	253	390	325	280	815	136	147	124	142	81	98	38
16 STA/CR	1260	1480	1610	1290	1198	1230	420	253	390	325	280	815	136	147	124	142	81	98	38
18 STA/CR	1390	1610	1710	1420	1328	1360	420	253	390	325	280	815	136	147	124	142	81	98	38
20 STA/CR	1560	1780	1880	1590	1498	1530	420	253	390	325	280	815	136	147	124	142	81	98	38

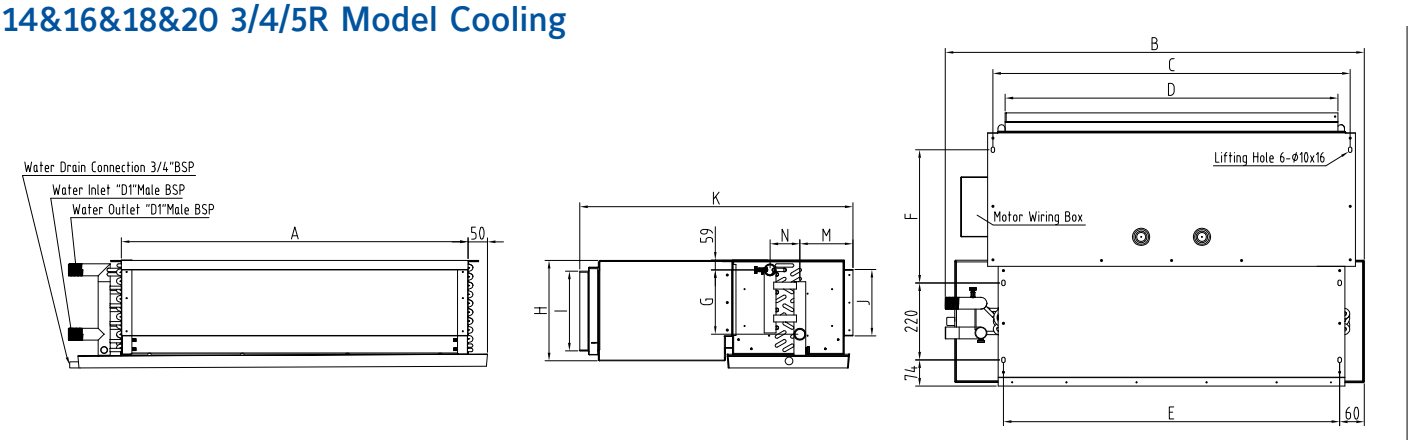
Units Drawings DC type

04&06&08&10&12 3/4/5R Model Cooling



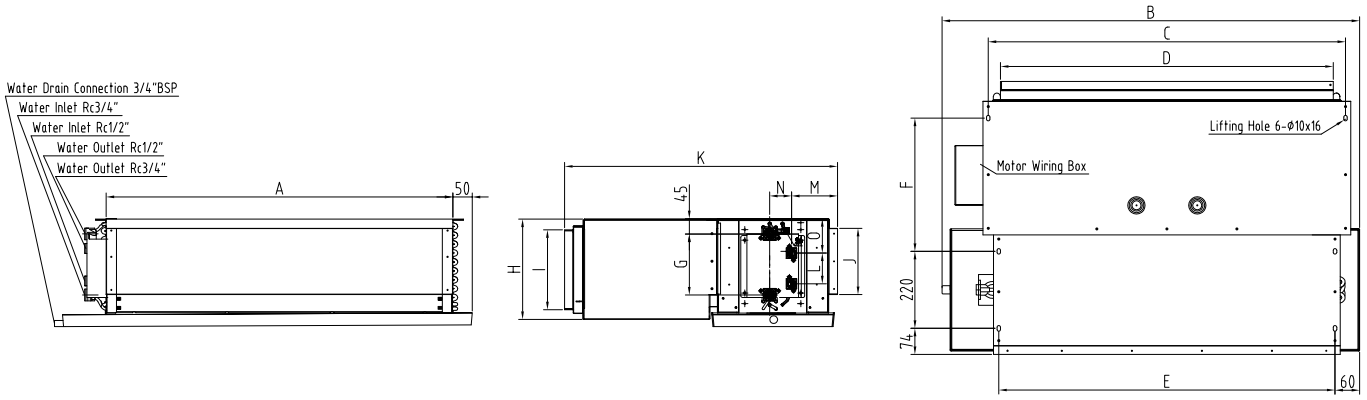
Size	A	B	B1	C	D	E	F	G	H	I	J	K	M
04 DC3/4/5R	830	1050	1210	860	768	800	380	173	289	225	190	775	184
06 DC3/4/5R	990	1210	1340	1020	928	960	380	173	289	225	190	775	184
08 DC3/4/5R	990	1210	1340	1020	928	960	380	215	340	275	240	775	184
10 DC3/4/5R	1120	1340	1480	1150	1058	1090	380	215	340	275	240	775	184
12 DC3/4/5R	1120	1340	1480	1150	1058	1090	380	215	340	275	240	775	184

14&16&18&20 3/4/5R Model Cooling



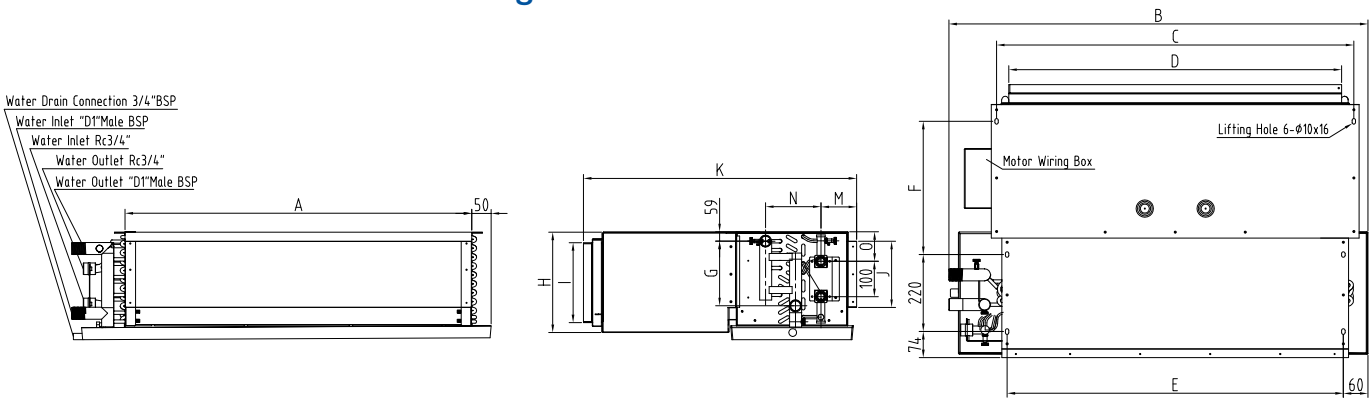
Size	A	B	B1	C	D	E	F	G	H	I	J	K	M3R	M4R	M5R	N3R	N4R	N5R	D1
14 DC3/4/5R	1120	1340	1480	1150	1058	1090	420	253	390	325	280	815	148	157	157	56	74	73	38
16 DC3/4/5R	1260	1480	1610	1290	1198	1230	420	253	390	325	280	815	148	157	157	56	74	73	38
18 DC3/4/5R	1390	1610	1710	1420	1328	1360	420	253	390	325	280	815	148	157	157	56	74	73	38
20 DC3/4/5R	1560	1780	1880	1590	1498	1530	420	253	390	325	280	815	148	157	157	56	74	73	38

04&06&08&10&12 A/CR Model Cooling



Size	A	B	B1	C	D	E	F	G	H	I	J	K	L	O3+1R	O4+1R	M3+1R	M4+1R	N3+1R	N4+1R
04 DCA/CR	830	1050	1210	860	768	800	380	173	289	225	190	775	92	96	106	131	123	62	70
06 DCA/CR	990	1210	1340	1020	928	960	380	173	289	225	190	775	92	96	106	131	123	62	70
08 DCA/CR	990	1210	1340	1020	928	960	380	215	340	275	240	775	134	96	106	131	123	62	70
10 DCA/CR	1120	1340	1480	1150	1058	1090	380	215	340	275	240	775	134	96	106	131	123	62	70
12 DCA/CR	1120	1340	1480	1150	1058	1090	380	215	340	275	240	775	134	96	106	131	123	62	70

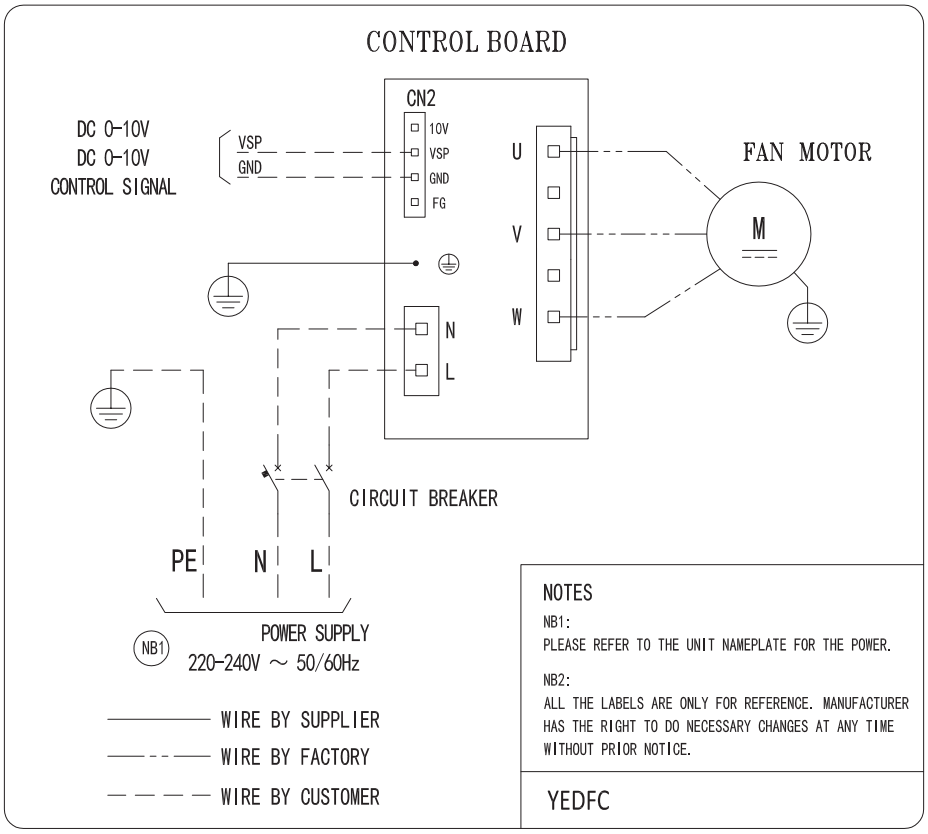
14&16&18&20 A/CR Model Cooling



Size	A	B	B1	C	D	E	F	G	H	I	J	K	O3+1R	O4+1R	M3+1R	M4+1R	N3+1R	N4+1R	D1
14 DCA/CR	1120	1340	1480	1150	1058	1090	420	253	390	325	280	815	136	147	124	142	81	98	38
16 DCA/CR	1260	1480	1610	1290	1198	1230	420	253	390	325	280	815	136	147	124	142	81	98	38
18 DCA/CR	1390	1610	1710	1420	1328	1360	420	253	390	325	280	815	136	147	124	142	81	98	38
20 DCA/CR	1560	1780	1880	1590	1498	1530	420	253	390	325	280	815	136	147	124	142	81	98	38

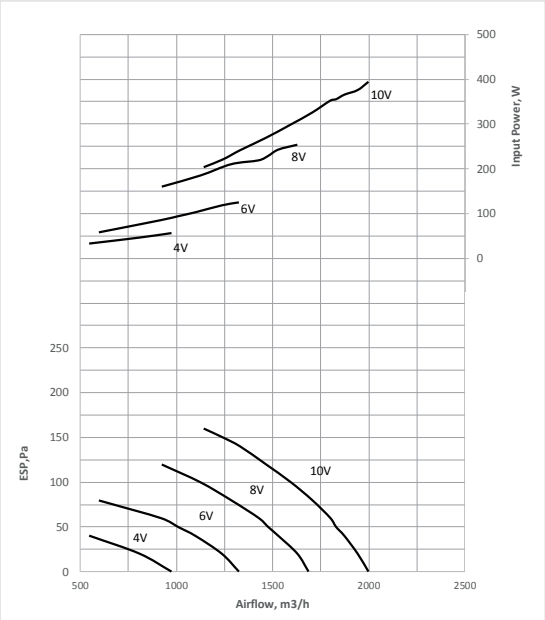
Notes:
1. B is the length of drain pan
2. B1 is the length of unit including extended drain pan
3. All dimensions are in mm

Electrical Data and Wiring

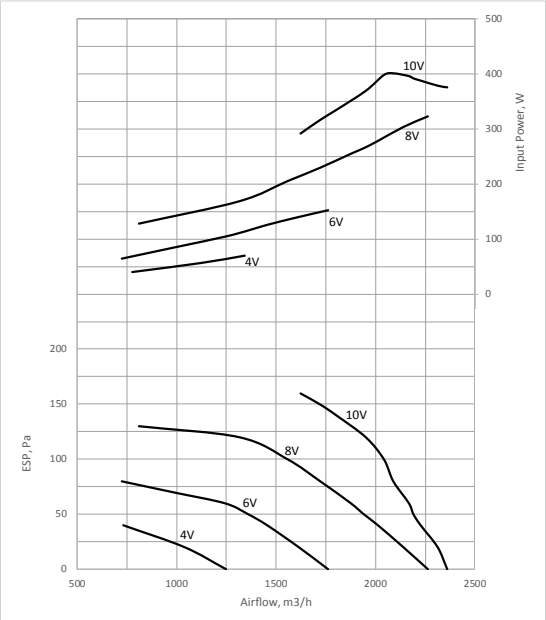


Fan Performance Curves

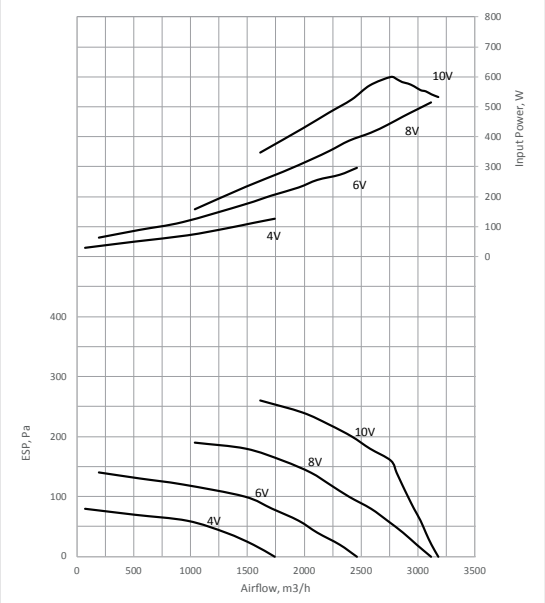
YEDFC04 4R



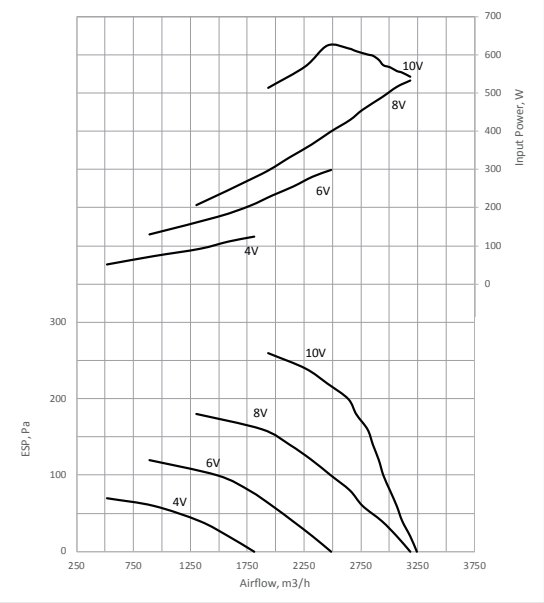
YEDFC06 4R



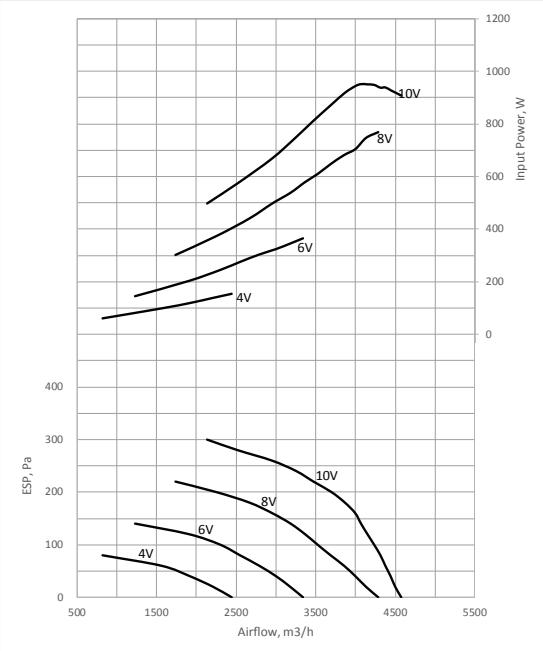
YEDFC08 4R



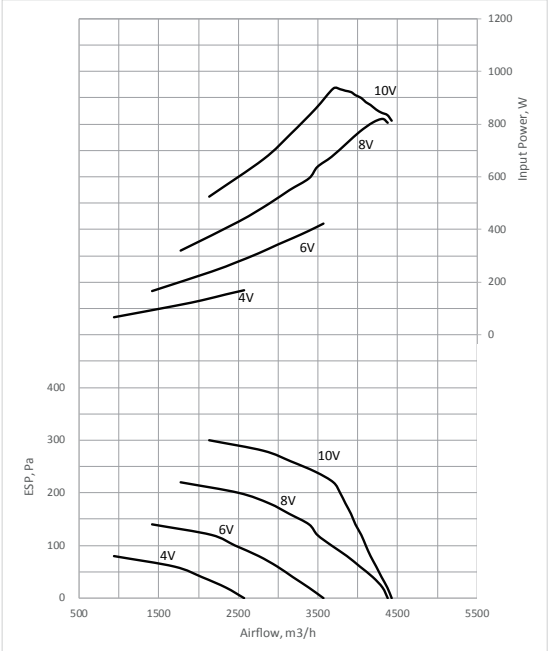
YEDFC10/12 4R



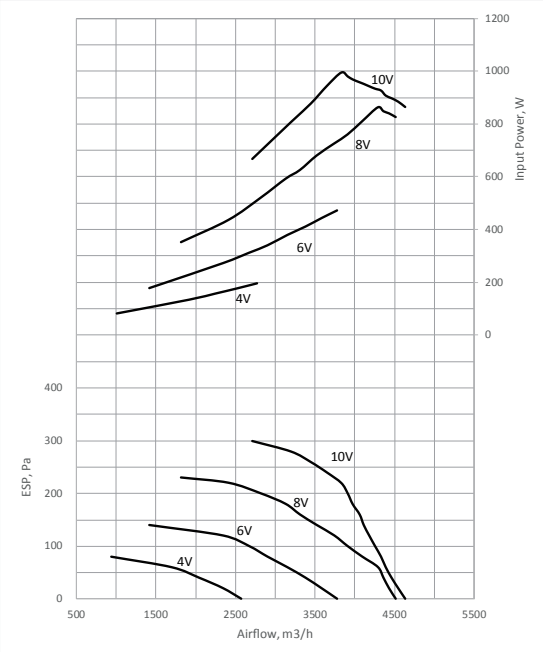
YEDFC14 4R



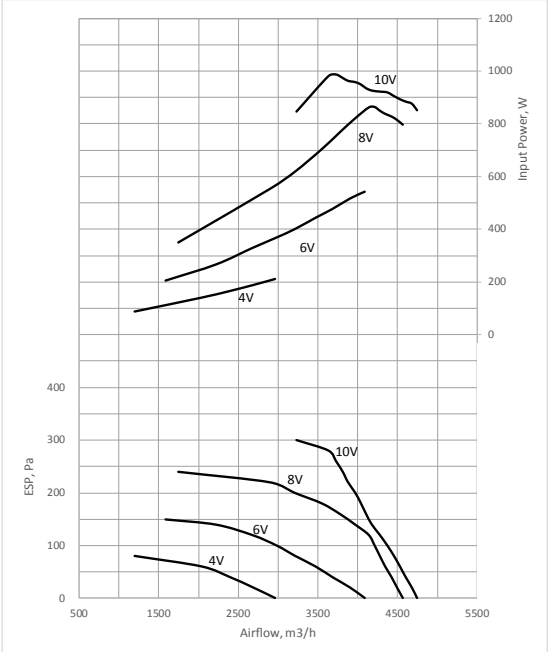
YEDFC16 4R



YEDFC18 4R



YEDFC20 4R



Guide Specifications

GENERAL

Furnish and install compact low profile concealed fan coil units not exceding 395 mm height as indicated and scheduled in the plans. Units shall be factory assembled with coils that are pressure tested individually to 400 psi (2.8 MPa). The unit shall incorporate one directly driven EC forward curved fans with integral variable speed drive(s).

MOTORS

High efficiency electronically commutated (EC) 220~240 volt single phase 50/60Hz motors shall be fitted as standard on all units. Motor can be regulated by 0-10V dc signal supplied by a BMS, thermostat or DDC controller. The motor is resiliently mounted, self aligning and oiled for life.

BASIC UNIT

The basic unit shall be fabricated out of galvanized steel. Thermal insulation shall be 6mm PE applied to both the fan coil casing and return air plenum sections. The fan motor shall be easily removable for serviceability. A terminal box with terminal strip shall be provided for terminating the wiring. On ceiling concealed units with plenum, the filter shall be easily removable from side.

FANS

All fans shall be statically and dynamically balanced, forwardly curved, DWDI centrifugal type. The fan motor assembly shall be designed for low-noise operation, while having compact dimension and being easy for installation and replacement. Fans shall be mounted inside the insulated return air plenum.

COILS

Copper tube with corrugated aluminum hydrophilic fins. The coil shall be pressure tested under water to 2.8 MPa (For a working pressure of 1600 kpa) and dehydrated before assembly. Coil shall be provided with a manual air vent on the top. The coil assembly shall be protected on the side on which piping is to be fitted with a cover made of GI sheet. The drain tray below the coils shall be GI sheet to avoid corrosion and shall extend 100mm beyond the unit casing to facilitate easy installation of CHW and HW control valves.

TERMINAL BOX

All units shall be provided with factory installed terminal box with the fan motor and 0-10vdc speed control input factory wired to the box.

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At Johnson Controls, we transform the environments where people live, work, learn and play. From optimizing building performance to improving safety and enhancing comfort, we drive the outcomes that matter most. We deliver our promise in industries such as healthcare, education, data centers and manufacturing. With a global team of 105,000 experts in more than 150 countries and over 130 years of innovation, we are the power behind our customers' mission. Our leading portfolio of building technology and solutions includes some of the most trusted names in the industry, such as Tyco®, YORK®, *Metasys*®, Ruskin®, Titus®, Frick®, Penn®, Sabroe®, Simplex®, Ansul® and Grinnell®.

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