

SAKURA®



AHU



Features

Special Panel Structure Design

FFD's and FAD's panel is made of powder coated steel (outer) and galvanized steel (inner) with high pressure PU foam sandwiched in between, thus producing a rigid and robust panel (25mm). Structure of FFD and FAD is reinforced with specially designed hidden aluminum alloy frame that are being fastened to the panels with bolts and nuts. As a result, the structure is strong and lightweight, at the same time possesses superior thermal insulation and anti-rust property.

Low Air Leakage

Patented "Labyrinth" panel design featuring integrated frame and panel structure, proprietary aluminum profile fastened with bolts and nuts and ingeniously designed insulation method, reduces the connecting edges which produces a leading edge low air leakage panel structure.

No Cold Bridge

High pressure PU foam sandwiched between panels and specially designed insulation method is isolating all metal surfaces inside the air handling unit from outside air which eliminate the possibility of cold bridge. Thus, no condensation will happen and at the same time minimize loss of energy.

Wide Product Range

FFD's and FAD's design is adopting modular concept in both the length and width, making it flexible and robust to suite different site conditions. FFD is offering product range with air flow ranging from 564 – 15,000 m³/h and FAD is offering product range from 3,000-50,000 m³/h with 3 different ESP to choose from, making it versatile and able to fulfill various application requirements.

Computer Aided Coil Design

All cooling and heating coils are designed using professional computer selection software which is carefully formulated, designed and being fine tuned through laboratory testing and real life application.

Low Noise

Rigidly bolted panels, dynamically and statically balanced fan assembly with spring isolator and closely integrated sections reduces the vibrations and noise generated, thus, providing a quiet operation air handling unit.

ARI Performance Certified™ Coil *

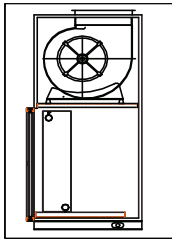


All cooling and heating coils are designed using professional computer selection software which is ARI Performance Certified™. The software is carefully formulated, designed and being fine tuned through laboratory testing and real life application to meet the highest standard of the HVAC industry.

ARI Performance Certified™ is the trusted mark of performance assurance for heating, ventilation, air conditioning and commercial refrigeration equipment. Products earning the mark undergo rigorous, independent annual evaluation to ensure that they perform according to the manufacturers' published claims. Certifying HVACR equipment and component performance allows consumers to compare products based on independently verified performance ratings. To find ARI Performance Certified™ products, go to www.aridirectory.org.

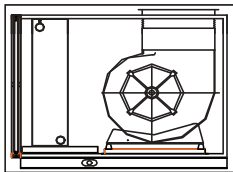
*ARI Performance Certified™ is a trademark of the Air-Conditioning and Refrigeration Institute.

Unit Type Configuration (FAD)



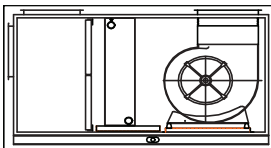
Vertical Type, V1

Pre-filter [nylon filter (slide rail)] + Cooling coil
+ Fan section



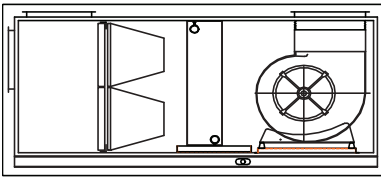
Horizontal Type 1, H1

Pre-filter + Cooling coil + Fan section



Horizontal Type 2, H2

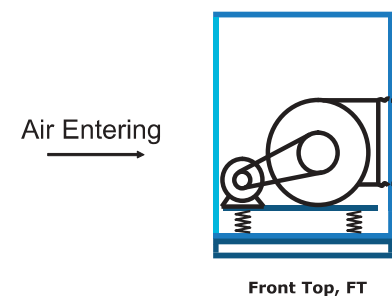
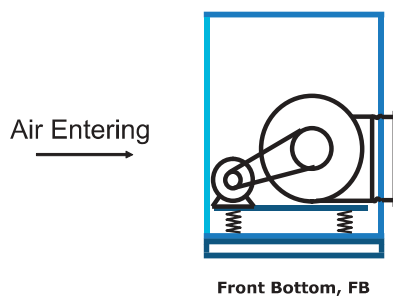
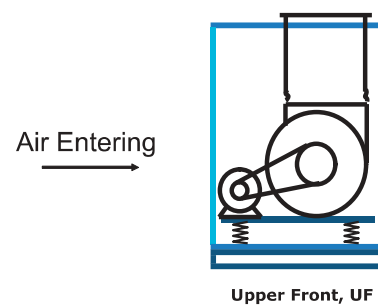
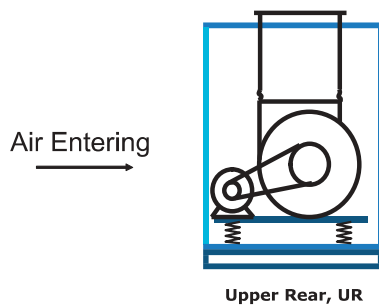
Mixing box + Pre-filter [G3/G4 (slide rail)] + Cooling coil
+ Fan section



Horizontal Type 3, H3

Mixing box + Pre-filter [G3/G4 (slide rail)] + Medium
efficiency bag filter (F5/F6) + Cooling coil + Fan Section

Fan Outlet Direction



Note:

1. Standard unit comes with flange opening. Damper (GI) is available as optional item.

Engineering Specifications

General Data - 3 Speeds Cooling Coil - 4 rows (Return Air)

Model	FFD		010C	015C	020C	025C	030C	040C	050C	060C	070C
Air Flow	High	m ³ /h	1000	1500	2000	2500	3000	4000	5000	6000	7000
	Medium		830	1245	1660	2075	2490	3320	4150	4980	5810
	Low		564	847	1129	1411	1693	2258	2822	3386	3951
Normal Cooling Capacity	High	kW	5.1	8.3	11.5	14.4	17.5	23.4	28.3	34.5	40.3
	Medium		4.2	6.8	9.5	12.0	14.4	19.4	23.2	28.6	33.4
	Low		3.5	5.6	7.8	9.8	11.9	15.9	19.2	23.5	27.4
Normal Heating Capacity	High	kW	10.2	15.2	21.2	26.0	32.0	41.5	51.4	61.7	71.3
	Medium		8.6	12.9	18.2	22.6	27.8	36.1	43.7	53.7	61.3
	Low		6.5	10	13.6	16.9	20.8	27.0	33.4	40.1	46.3
Water Flow Rate	High	l/s	0.24	0.4	0.55	0.69	0.83	1.13	1.37	1.64	1.92
	Medium		0.2	0.32	0.45	0.57	0.68	0.92	1.11	1.36	1.59
	Low		0.17	0.26	0.37	0.47	0.57	0.76	0.92	1.12	1.30
Water Pressure Drop	High	kPa	3.0	9.0	11.0	18.0	31.1	60.0	40.0	43.8	58.0
	Medium		2.3	6.9	8.5	13.9	23.9	46.2	30.8	33.7	75.3
	Low		1.8	5.3	6.5	10.6	18.3	35.4	23.6	25.8	34.2
ESP	High	Pa	140	140	140	190	190	160	160	220	260
	Medium		110	110	110	150	150	130	130	175	210
	Low		90	90	90	120	120	100	100	140	165
Dimension	Length	mm	950	950	950	950	1000	1000	1000	1000	1000
	Width	mm	787	912	992	1058	1207	1405	1657	1734	1859
	Height	mm	545	545	620	620	620	620	630	690	690
Chilled Water Pipe Diameter		DN	32	32	32	32	32	40	40	40	40
Cooling Water Pipe Diameter		DN	25	25	25	25	25	25	25	25	25
Weight		kg	48	52	72	74	85	95	124	140	146
Sound Pressure Level		dB(A)	52	52	54	55	57	58	60	62	62
Power Input		kW	0.35	0.45	0.50	0.70	0.70	1.00	1.40	2.30	2.70
Current Input		A	1.4	1.7	3.2	3.5	3.5	5.0	7.0	9.0	12.0
Power Supply		V/Ph/Hz	220/1/50								

Note :

- Nominal cooling capacity is rated under the following conditions:
 - Entering air - 27°C DB / 19.5°C WB
 - Entering water temperature - 7°C
 - Leaving water temperature - 12°C
- Nominal heating capacity is rated under the following conditions:
 - Entering air - 15°C DB
 - Entering water temperature - 60°C
 - Water flow rate is equals to water flow rate for cooling cycle.
- 4 rows cooling coil and 1 row heating coil is available upon request.
- All specifications are subjected to change by manufacturer without prior notice.

General Data - 3 Speeds Cooling Coil - 4 rows (Fresh Air)

Model	FFD		010C	015C	020C	025C	030C	040C	050C	060C	070C
Air Flow	High	m ³ /h	1000	1500	2000	2500	3000	4000	5000	6000	7000
	Medium		830	1245	1660	2075	2490	3320	4150	4980	5810
	Low		564	847	1129	1411	1693	2258	2822	3386	3951
Normal Cooling Capacity	High	kW	13.9	19.6	27.0	30.8	39.9	49.7	64.5	72.7	84.1
	Medium		11.4	16.3	22.4	25.6	33.1	41.3	53.5	60.3	69.0
	Low		9.5	13.3	18.4	20.9	27.1	33.8	43.9	49.4	57.2
Normal Heating	High	kW	13.2	19.2	27.5	31.8	40.9	51.1	64.0	75.5	87.1
	Medium		11.5	16.7	23.7	27.7	35.6	44.5	55.7	65.7	75.8
	Low		8.4	12.5	17.3	20.4	26.2	33.2	41.0	48.3	55.7
Water Flow Rate	High	l/s	0.66	0.93	1.39	1.47	1.90	2.37	3.07	3.46	4.0
	Medium		0.54	0.77	1.07	1.22	1.58	1.96	2.55	2.87	3.28
	Low		0.45	0.63	0.87	1.00	1.29	1.61	2.09	2.35	2.72
Water Pressure Drop	High	kPa	16.0	33.0	43.0	26.0	48.0	32.0	63.0	11.0	15.1
	Medium		12.3	25.4	33.1	20.0	37.0	24.6	48.5	8.5	11.6
	Low		9.4	19.5	25.4	15.3	28.3	18.9	37.2	6.5	8.9
ESP	High	Pa	140	140	140	190	190	160	160	220	260
	Medium		110	110	110	150	150	130	130	175	210
	Low		90	90	90	120	120	100	100	140	165
Dimension	Length	mm	950	950	950	950	1000	1000	1000	1000	1000
	Width	mm	787	912	992	1058	1207	1405	1657	1734	1859
	Height	mm	545	545	620	620	620	620	630	690	690
Chilled Water Pipe Diameter		DN	32	32	32	32	40	40	50	50	50
Cooling Water Pipe Diameter		DN	25	25	25	25	25	25	25	25	25
Weight		kg	48	52	72	74	85	95	124	140	146
Sound Pressure Level		dB(A)	52	52	54	55	57	58	60	62	62
Power Input		kW	0.35	0.45	0.50	0.70	0.70	1.00	1.40	2.30	2.70
Current Input		A	1.4	1.7	3.2	3.5	3.5	5.0	7.0	9.0	12.0
Power Supply		V/Ph/Hz	220/1/50								

Note :

- Nominal cooling capacity is rated under the following conditions:
 - Entering air - 35°C DB / 28°C WB
 - Entering water temperature - 7°C
 - Leaving water temperature - 12°C
- Nominal heating capacity is rated under the following conditions:
 - Entering air - 7°C DB
 - Entering water temperature - 60°C
 - Water flow rate is equals to water flow rate for cooling cycle.
- 4 rows cooling coil and 1 row heating coil is available upon request.
- All specifications are subjected to change by manufacturer without prior notice.

General Data - 3 Speeds Cooling Coil - 6 rows (Return Air)

Model	FFD		010C	015C	020C	025C	030C	040C	050C	060C	070C
Air Flow	High	m ³ /h	1000	1500	2000	2500	3000	4000	5000	6000	7000
	Medium		830	1245	1660	2075	2490	3320	4150	4980	5810
	Low		564	847	1129	1411	1693	2258	2822	3386	3951
Normal Cooling Capacity	High	kW	7.2	11.0	14.9	18.2	22.0	30.1	35.2	43.7	49.4
	Medium		6.0	9.1	12.2	15.1	18.3	25.0	29.2	36.3	40.5
	Low		4.9	7.5	10.1	12.4	15.0	20.5	23.9	29.7	33.6
Normal Heating Capacity	High	kW	12.4	18.5	25.3	30.8	37.3	49.1	61.8	73.9	85.3
	Medium		10.5	15.9	21.8	26.5	32.1	42.2	52.5	62.8	73.4
	Low		7.6	11.5	15.7	19.4	23.1	30.9	38.9	46.6	52.9
Water Flow Rate	High	l/s	0.34	0.52	0.71	0.87	1.05	1.43	1.68	2.08	2.35
	Medium		0.28	0.43	0.58	0.72	0.87	1.19	1.43	1.73	1.93
	Low		0.23	0.36	0.48	0.59	0.71	0.97	1.14	1.42	1.6
Water Pressure Drop	High	kPa	8.8	19.5	26.0	38.2	24.0	49.5	32.0	44.0	59.0
	Medium		6.8	15.0	20.0	29.3	18.5	38.1	24.6	33.9	45.4
	Low		5.2	11.5	15.3	22.4	14.2	29.2	18.9	26.0	34.8
ESP	High	Pa	80	80	80	130	130	100	100	160	200
	Medium		65	65	65	105	105	80	80	130	160
	Low		50	50	50	85	85	65	65	105	130
Dimension	Length	mm	950	950	950	950	1000	1000	1000	1000	1000
	Width	mm	787	912	992	1058	1207	1405	1657	1734	1859
	Height	mm	545	545	620	620	620	620	630	690	690
Chilled Water Pipe Diameter		DN	32	32	32	32	40	40	40	40	50
Cooling Water Pipe Diameter		DN	25	25	25	25	25	25	25	25	25
Weight		kg	50	55	77	79	90	98	128	143	151
Sound Pressure Level		dB(A)	52	52	54	55	57	58	60	62	62
Power Input		kW	0.35	0.45	0.50	0.70	0.70	1.00	1.40	2.30	2.70
Current Input		A	1.4	1.7	3.2	3.5	3.5	5.0	7.0	9.0	12.0
Power Supply		V/Ph/Hz	220/1/50								

Note :

- Nominal cooling capacity is rated under the following conditions:
 - Entering air - 27°C DB / 19.5°C WB
 - Entering water temperature - 7°C
 - Leaving water temperature - 12°C
- Nominal heating capacity is rated under the following conditions:
 - Entering air - 15°C DB
 - Entering water temperature - 60°C
 - Water flow rate is equals to water flow rate for cooling cycle.
- 6 rows cooling coil and 1 row heating coil is available upon request.
- All specifications are subjected to change by manufacturer without prior notice.

General Data - 3 Speeds Cooling Coil - 6 rows (Fresh Air)

Model	FFD		010C	015C	020C	025C	030C	040C	050C	060C	070C
Air Flow	High	m ³ /h	1000	1500	2000	2500	3000	4000	5000	6000	7000
	Medium		830	1245	1660	2075	2490	3320	4150	4980	5810
	Low		564	847	1129	1411	1693	2258	2822	3386	3951
Normal Cooling Capacity	High	kW	15.8	24.5	31.2	40.3	45.8	63.8	75.4	92.6	105.6
	Medium		13.1	20.3	25.9	33.4	38.0	53.0	62.6	76.9	87.6
	Low		10.7	16.7	21.2	27.4	31.1	42.7	51.3	63.0	71.8
Normal Heating Capacity	High	kW	15.6	23.7	31.3	39.3	45.1	61.8	75.9	91.9	104.8
	Medium		13.1	19.9	26.6	33.4	38.3	52.5	64.5	78.1	89.1
	Low		9.0	14.0	18.8	24.0	27.5	37.1	45.5	55.1	62.9
Water Flow Rate	High	l/s	0.75	1.17	1.49	1.92	2.18	3.04	3.59	4.41	5.03
	Medium		0.62	0.97	1.23	1.59	1.18	2.52	2.98	3.66	4.17
	Low		0.51	0.79	1.01	1.30	1.48	2.04	2.44	3.0	3.42
Water Pressure Drop	High	kPa	18.2	51.5	21.8	38.9	51.8	58.0	37.1	27.3	37.9
	Medium		14.0	39.7	16.8	30.0	39.9	44.7	28.6	21.0	29.2
	Low		10.7	30.4	12.9	23.0	30.6	34.2	21.9	16.1	22.4
ESP	High	Pa	80	80	80	130	130	100	100	160	200
	Medium		65	65	65	105	105	80	80	130	160
	Low		50	50	50	85	85	65	65	105	130
Dimension	Length	mm	950	950	950	950	1000	1000	1000	1000	1000
	Width	mm	787	912	992	1058	1207	1405	1657	1734	1859
	Height	mm	545	545	620	620	620	620	630	690	690
Chilled Water Pipe Diameter		DN	32	32	40	40	40	50	50	50	65
Cooling Water Pipe Diameter		DN	25	25	25	25	25	25	25	25	25
Weight		kg	50	55	77	79	90	98	128	143	151
Sound Pressure Level		dB(A)	52	52	54	55	57	58	60	62	62
Power Input		kW	0.35	0.45	0.50	0.70	0.70	1.00	1.40	2.30	2.70
Current Input		A	1.4	1.7	3.2	3.5	3.5	5.0	7.0	9.0	12.0
Power Supply		V/Ph/Hz	220/1/50								

Note :

- Nominal cooling capacity is rated under the following conditions:
 - Entering air - 35°C DB / 28°C WB
 - Entering water temperature - 7°C
 - Leaving water temperature - 12°C
- Nominal heating capacity is rated under the following conditions:
 - Entering air - 7°C DB
 - Entering water temperature - 60°C
 - Water flow rate is equals to water flow rate for cooling cycle.
- 6 rows cooling coil and 1 row heating coil is available upon request.
- All specifications are subjected to change by manufacturer without prior notice.

General Data - Belt Driven - 4 Rows (Return Air)

Model		FFD	030E	040E	050E	060E	070E	080E
Air Flow		m ³ /h	3000	4000	5000	6000	7000	8000
Nominal Cooling Capacity		kW	17.5	23.4	28.3	34.5	40.3	46.2
Nominal Heating Capacity		kW	32.0	41.5	51.4	61.7	71.3	83.1
Water Flow Rate		l/s	0.83	1.13	1.37	1.64	1.92	2.20
Water Pressure Drop		kPa	31.0	60.0	40.0	43.8	58.0	26.0
External Static Pressure		Pa	160	200	200	200	240	240
Motor Power	50Hz	kW	0.75	1.10	1.50	1.50	2.20	2.20
	Length	mm	1000	1000	1000	1000	1000	1000
	Width	mm	1207	1405	1657	1734	1859	1859
	Height	mm	620	620	630	690	690	780
Weight		kg	90	107	137	139	192	231
Sound Pressure Level		dB(A)	58	59	62	63	64	64
Chilled Water Pipe Diameter		DN	40	40	40	40	40	40
Condensate Water Pipe Diameter		DN	25	25	25	25	25	25

Model		FFD	090E	105E	120E	135E	150E
Air Flow		m ³ /h	9000	10500	12000	13500	15000
Nominal Cooling Capacity		kW	52.1	59.9	69.3	76.8	85.3
Nominal Heating Capacity		kW	93.1	108.1	131.7	146.6	162.8
Water Flow Rate		l/s	2.48	2.85	3.30	3.66	4.06
Water Pressure Drop		kPa	34.0	51.0	29.4	25.4	27.4
External Static Pressure		Pa	280	280	280	320	320
Motor Power	50Hz	kW	2.20	3.00	4.00	4.00	5.50
	Length	mm	1100	1100	1100	1300	1300
	Width	mm	1988	2248	2298	2241	2241
	Height	mm	780	780	820	1027	1155
Weight		kg	277	297	287	368	372
Sound Pressure Level		dB(A)	66	67	68	68.5	69
Chilled Water Pipe Diameter		DN	40	50	50	65	65
Condensate Water Pipe Diameter		DN	25	25	25	32	32

Note:

1) Cooling:

a) 27°C DB / 19.5°C WB air entering condition

b) 7°C entering water temperature and 12°C leaving water temperature

2) Heating:

a) 15°C DB air entering condition

b) 60°C entering water temperature and water flow rate for heating equals to water flow rate for cooling

3) 4 rows cooling coil and 1 row or 2 rows heating coil is available upon request.

4) Manufacturer reserves the rights to change the specifications without prior notice.

General Data - Belt Driven - 4 Rows (Fresh Air)

Model		FFD	030E	040E	050E	060E	070E	080E
Air Flow		m ³ /h	3000	4000	5000	6000	7000	8000
Nominal Cooling Capacity		kW	39.9	49.7	64.5	72.7	84.1	99.0
Nominal Heating Capacity		kW	40.9	51.1	64.0	75.5	87.1	101.7
Water Flow Rate		l/s	1.90	2.37	3.07	3.46	4.00	4.71
Water Pressure Drop		kPa	48.0	32.0	63.0	11.5	15.1	14.4
External Static Pressure		Pa	160	200	200	200	240	240
Motor Power	50Hz	kW	0.75	1.10	1.50	1.50	2.20	2.20
	Length	mm	1000	1000	1000	1000	1000	1000
	Width	mm	1207	1405	1657	1734	1859	1859
	Height	mm	620	620	630	690	690	780
Weight		kg	90	99	128	139	192	231
Sound Pressure Level		dB(A)	59	60	62	63	64	64
Chilled Water Pipe Diameter		DN	50	50	50	50	50	50
Condensate Water Pipe Diameter		DN	25	25	25	25	25	25

Model		FFD	090E	105E	120E	135E	150E
Air Flow		m ³ /h	9000	10500	12000	13500	15000
Nominal Cooling Capacity		kW	111.0	133.1	149.4	165.8	184.2
Nominal Heating Capacity		kW	113.8	133.4	155.1	180.2	200.2
Water Flow Rate		l/s	5.29	6.34	7.12	7.90	8.77
Water Pressure Drop		kPa	19.0	29.5	20.7	16.3	17.7
External Static Pressure		Pa	280	280	280	320	320
Motor Power	50Hz	kW	2.20	3.00	4.00	4.00	5.50
	Length	mm	1100	1100	1100	1300	1300
	Width	mm	1988	2248	2298	2241	2241
	Height	mm	780	780	820	1027	1155
Weight		kg	270	279	287	368	372
Sound Pressure Level		dB(A)	66	67	68	68.5	69
Chilled Water Pipe Diameter		DN	65	65	65	65	65
Condensate Water Pipe Diameter		DN	25	25	25	32	32

Note:

1) Cooling:

a) 35°C DB / 28°C WB air entering condition

b) 7°C entering water temperature and 12°C leaving water temperature

2) Heating:

a) 7°C DB air entering condition

b) 60°C entering water temperature and water flow rate for heating equals to water flow rate for cooling

3) 4 rows cooling coil and 1 row or 2 rows heating coil is available upon request.

4) Manufacturer reserves the rights to change the specifications without prior notice.

General Data - Belt Driven - 6 Rows (Return Air)

Model		FFD	030E	040E	050E	060E	070E	080E
Air Flow		m ³ /h	3000	4000	5000	6000	7000	8000
Nominal Cooling Capacity		kW	22.2	30.1	35.2	43.7	49.4	57.6
Nominal Heating Capacity		kW	37.3	49.1	61.8	73.9	85.3	98.3
Water Flow Rate		l/s	1.05	1.43	1.68	2.08	2.35	2.74
Water Pressure Drop		kPa	24.0	49.5	32.0	44.0	59.0	56.0
External Static Pressure		Pa	160	200	200	200	240	240
Motor Power	50Hz	kW	0.75	1.10	1.50	2.20	2.20	3.00
	Length	mm	1000	1000	1000	1000	1000	1000
	Width	mm	1207	1405	1657	1734	1859	1859
	Height	mm	620	620	630	690	690	780
Weight		kg	121	129	158	180	222	271
Sound Pressure Level		dB(A)	59	60	62	63	64	64
Chilled Water Pipe Diameter		DN	40	40	40	40	50	50
Condensate Water Pipe Diameter		DN	25	25	25	25	25	25

Model		FFD	090E	105E	120E	135E	150E
Air Flow		m ³ /h	9000	10500	12000	13500	15000
Nominal Cooling Capacity		kW	64.8	75.1	85.8	102.3	108.5
Nominal Heating Capacity		kW	110.3	135.3	161.1	176.4	189.7
Water Flow Rate		l/s	3.09	3.58	4.09	4.87	5.17
Water Pressure Drop		kPa	25.4	21.1	23.3	59.0	58.3
External Static Pressure		Pa	280	280	280	320	320
Motor Power	50Hz	kW	3.00	3.00	4.00	4.00	5.50
	Length	mm	1100	1100	1100	1300	1300
	Width	mm	1988	2248	2298	2241	2241
	Height	mm	780	780	820	1027	1155
Weight		kg	305	309	311	398	414
Sound Pressure Level		dB(A)	66	68	68	68.5	69
Chilled Water Pipe Diameter		DN	50	50	50	65	65
Condensate Water Pipe Diameter		DN	25	25	25	32	32

Note:

- 1) Cooling:
 - a) 27°C DB / 19.5°C WB air entering condition
 - b) 7°C entering water temperature and 12°C leaving water temperature
- 2) Heating:
 - a) 15°C DB air entering condition
 - b) 60°C entering water temperature and water flow rate for heating equals to water flow rate for cooling
- 3) 6 rows cooling coil and 1 row or 2 rows heating coil is available upon request.
- 4) Manufacturer reserves the rights to change the specifications without prior notice.

General Data - Belt Driven - 6 Rows (Fresh Air)

Model		FFD	030E	040E	050E	060E	070E	080E
Air Flow		m ³ /h	3000	4000	5000	6000	7000	8000
Nominal Cooling Capacity		kW	45.8	63.8	75.4	92.6	105.6	120.7
Nominal Heating Capacity		kW	45.1	61.8	75.9	91.9	104.8	119.7
Water Flow Rate		l/s	2.18	3.04	3.59	4.41	5.03	5.75
Water Pressure Drop		kPa	51.8	58.0	37.1	27.3	37.9	41.0
External Static Pressure		Pa	160	200	200	200	240	240
Motor Power	50Hz	kW	0.75	1.10	1.50	2.20	2.20	3.00
	Length	mm	1000	1000	1000	1000	1000	1000
	Width	mm	1207	1405	1657	1734	1859	1859
	Height	mm	620	620	630	690	690	780
Weight		kg	121	129	158	180	222	271
Sound Pressure Level		dB(A)	59	60	62	63	64	64
Chilled Water Pipe Diameter		DN	40	50	50	50	65	65
Condensate Water Pipe Diameter		DN	25	25	25	25	25	25

Model		FFD	090E	105E	120E	135E	150E
Air Flow		m ³ /h	9000	10500	12000	13500	15000
Nominal Cooling Capacity		kW	137.3	160.2	185.2	222.6	244.7
Nominal Heating Capacity		kW	135.3	157.9	180.4	213.4	237.1
Water Flow Rate		l/s	6.54	7.63	8.20	9.84	10.65
Water Pressure Drop		kPa	55.6	75.9	80.4	69.0	71.1
External Static Pressure		Pa	280	280	280	320	320
Motor Power	50Hz	kW	3.00	3.00	4.00	4.00	5.50
	Length	mm	1100	1100	1100	1300	1300
	Width	mm	1988	2248	2298	2241	2241
	Height	mm	780	780	820	1027	1155
Weight		kg	305	309	311	398	414
Sound Pressure Level		dB(A)	66	67	68	68.5	69
Chilled Water Pipe Diameter		DN	65	65	65	80	80
Condensate Water Pipe Diameter		DN	25	25	25	32	32

Note:

1) Cooling:

a) 35°C DB / 28°C WB air entering condition

b) 7°C entering water temperature and 12°C leaving water temperature

2) Heating:

a) 7°C DB air entering condition

b) 60°C entering water temperature and water flow rate for heating equals to water flow rate for cooling

3) 6 rows cooling coil and 1 row or 2 rows heating coil is available upon request.

4) Manufacturer reserves the rights to change the specifications without prior notice.



General Data - Belt Driven Cooling Coil - 4 Rows (Return Air)

Model		FAD	030D	040D	050D	060D	070D	080D	090D	105D	120D	135D	150D
Air Flow		m ³ /h	3000	4000	5000	6000	7000	8000	9000	10500	12000	13500	15000
Nominal Cooling Capacity		kW	17.2	23.4	28.2	35.1	41.0	48.2	52.3	59.7	69.8	79.1	90.4
Nominal Heating Capacity		kW	35.1	47.1	57.0	69.1	80.7	93.7	102.6	115.7	136.8	158.1	172.7
Water Flow Rate		l/s	0.82	1.12	1.34	1.67	1.95	2.30	2.49	2.84	3.32	3.77	4.31
Water Pressure Drop		kPa	13.8	20.7	19.9	27.0	31.9	46.9	42.4	60.0	46.0	20.8	61.5
External Static Pressure	H1	Pa	220	220	220	220	270	270	270	270	270	270	270
	H2	Pa	220	220	220	220	270	270	270	270	270	270	270
	H3	Pa	220	220	220	220	270	270	270	270	270	270	270
	V1	Pa	220	220	220	220	270	270	270	270	270	270	270
Motor Power	H1	kW	0.75	1.10	1.10	1.50	2.20	2.20	2.20	3.00	3.00	4.00	4.00
	H2	kW	0.75	1.1	1.5	2.20	2.20	2.20	3.00	3.00	3.00	4.00	5.50
	H3	kW	1.1	1.5	1.5	2.20	2.20	3.00	3.00	4.00	4.00	4.00	5.50
	V1	kW	0.75	1.1	1.1	1.50	2.20	2.20	2.20	3.00	3.00	4.00	4.00
Dimension	H1	Length	mm	953	1053	1053	1153	1203	1353	1353	1553	1703	1953
		Width	mm	1110	1160	1160	1160	1260	1260	1410	1460	1360	1360
		Height	mm	720	790	920	990	1070	1070	1170	1170	1190	1290
	H2	Length	mm	953	1053	1053	1153	1203	1353	1353	1553	1703	1953
		Width	mm	1590	1640	1640	1640	1740	1740	1990	1990	2040	1940
		Height	mm	720	790	920	990	1070	1070	1170	1170	1190	1290
	H3	Length	mm	953	1053	1053	1153	1203	1353	1353	1553	1703	1953
		Width	mm	2040	2090	2090	2090	2190	2190	2440	2440	2490	2390
		Height	mm	720	790	920	990	1070	1070	1170	1170	1190	1290
	V1	Length	mm	953	1053	1053	1153	1203	1353	1353	1553	1703	1953
		Width	mm	710	710	810	810	810	810	960	960	960	960
		Height	mm	1220	1420	1570	1620	1770	1770	2020	2020	2040	2090
Weight	H1	kg	148	167	186	211	242	256	299	325	350	442	447
	H2	kg	177	201	230	261	288	319	343	392	426	525	569
	H3	kg	197	224	249	282	310	345	394	433	471	574	622
	V1	kg	153	175	206	231	257	272	326	360	367	481	491
Sound Pressure Level	H1/V1	dB(A)	58	59	61	62	64	64	65	66	67	68	68
	H2/H3	dB(A)	59	60	62	63	65	65	66	67	68	69	69
Chilled Water Pipe Diameter		DN	40	40	40	40	50	50	50	50	50	65	65
Condensate Water Pipe Diameter		DN	25	25	25	25	25	25	25	25	25	32	32

Note:

1) Cooling:

a) 27°C DB / 19.5°C WB air entering condition

b) 7°C entering water temperature and 12°C leaving water temperature

2) Heating:

a) 15°C DB air entering condition

b) 60°C entering water temperature and water flow rate for heating equals to water flow rate for cooling

3) ESP value does not consider static pressure of humidifier, ESP has to be reduced by 20Pa if humidifier is required.

4) ESP value is for nominal condition only. Please refer "Fan Static Pressure vs Motor Power Chart" for different ESP application.

5) 4 rows cooling coil and 1 row or 2 rows heating coil is available upon request.

6) Manufacturer reserves the rights to change the specifications without prior notice.

General Data - Belt Driven Cooling Coil - 4 Rows (Return Air)

Model		FAD	180D	210D	240D	270D	300D	330D	350D	400D	450D	500D
Air Flow		m ³ /h	18000	21000	24000	27000	30000	33000	35000	40000	45000	50000
Nominal Cooling Capacity		kW	107.0	126.6	148.8	167.5	186.1	204.7	220.1	230.8	248.1	275.6
Nominal Heating Capacity		kW	210.8	247.3	285.6	321.3	357.0	392.7	416.5	451.0	484.8	538.5
Water Flow Rate		l/s	5.10	6.03	7.09	7.98	8.86	9.75	10.48	11.0	11.80	13.1
Water Pressure Drop		kPa	31.8	36.3	53.4	55.1	56.8	72.3	85.6	69.2	71.5	79.1
External Static Pressure	H1	Pa	320	320	320	420	420	420	470	420	420	420
	H2	Pa	320	320	320	420	420	420	420	420	420	420
	H3	Pa	320	320	320	370	370	370	370	370	370	370
	V1	Pa	320	320	320	420	420	420	470	420	420	420
Motor Power	H1	kW	5.50	7.50	7.50	11.00	11.00	15.00	15.00	15.00	18.50	22.00
	H2	kW	5.50	7.50	7.50	11.00	15.00	15.00	15.00	15.00	18.50	22.00
	H3	kW	7.50	11.00	11.00	11.00	15.00	15.00	15.00	15.00	18.50	22.00
	V1	kW	5.50	7.50	7.50	11.00	11.00	15.00	15.00	15.00	18.50	22.0
Dimension	H1	Length	mm	2153	2353	2653	2653	2653	2903	3053	3053	3153
		Width	mm	1510	1510	1510	1510	1560	1610	1710	1760	1760
		Height	mm	1340	1390	1390	1520	1640	1640	1640	1893	2020
	H2	Length	mm	2153	2353	2653	2653	2653	2903	3053	3053	3153
		Width	mm	2090	2090	2090	2290	2340	2390	2490	2540	2640
		Height	mm	1340	1390	1390	1520	1640	1640	1640	1893	2020
	H3	Length	mm	2153	2353	2653	2653	2653	2903	3053	3053	3153
		Width	mm	2540	2540	2540	2740	2790	2840	2940	2940	3040
		Height	mm	1340	1390	1390	1520	1640	1640	1640	1893	2020
	V1	Length	mm	2153	2353	2653	2653	2653	2903	3053	3053	3153
		Width	mm	960	960	960	960	960	1160	1160	1160	1160
		Height	mm	2240	2290	2290	2440	2540	2640	2690	2940	3090
Weight	H1	kg	539	584	644	728	761	882	953	986	1070	1097
	H2	kg	652	707	780	912	958	1084	1170	1202	1285	1324
	H3	kg	727	809	885	978	1033	1185	1246	1306	1421	1462
	V1	kg	570	631	682	735	786	952	1020	1067	1112	1194
Sound Pressure Level	H1/V1	dB(A)	69	70	71	72	73	73	73.5	73.5	74	74
	H2/H3	dB(A)	70	71	72	73	74	74	75	75	76	76
Chilled Water Pipe Diameter		DN	65	65	65	65	65	80	80	80	80	80
Condensate Water Pipe Diameter		DN	32	32	32	32	32	32	32	32	32	32

Note:

1) Cooling:

a) 27°C DB / 19.5°C WB air entering condition

b) 7°C entering water temperature and 12°C leaving water temperature

2) Heating:

a) 15°C DB air entering condition

b) 60°C entering water temperature and water flow rate for heating equals to water flow rate for cooling

3) ESP value does not consider static pressure of humidifier, ESP has to be reduced by 20Pa if humidifier is required.

4) ESP value is for nominal condition only. Please refer "Fan Static Pressure vs Motor Power Chart" for different ESP application.

5) 4 rows cooling coil and 1 row or 2 rows heating coil is available upon request.

6) Manufacturer reserves the rights to change the specifications without prior notice.

General Data - Belt Driven Cooling Coil - 4 Rows (Fresh Air)

Model		FAD	030D	040D	050D	060D	070D	080D	090D	105D	120D	135D	150D
Air Flow		m ³ /h	3000	4000	5000	6000	7000	8000	9000	10500	12000	13500	15000
Nominal Cooling Capacity		kW	40.5	54.7	68.4	81.0	89.6	101.7	116.8	145.5	157.9	172.9	194.7
Nominal Heating Capacity		kW	44.3	58.8	73.8	85.0	95.0	108.6	123.5	154.9	175.3	195.2	221.3
Water Flow Rate		l/s	1.93	2.61	3.26	6.01	6.56	6.56	7.65	7.65	7.65	8.23	9.27
Water Pressure Drop		kPa	31.9	49.8	49.4	46.2	49.4	63.4	57.3	62.6	66.7	13.8	15.6
External Static Pressure	H1	Pa	220	220	220	220	270	270	270	270	270	270	270
	H2	Pa	220	220	220	220	270	270	270	270	270	270	270
	H3	Pa	220	220	220	220	270	270	270	270	270	270	270
	V1	Pa	220	220	220	220	270	270	270	270	270	270	270
Motor Power	H1	kW	0.75	1.10	1.10	1.50	2.20	2.20	2.20	3.00	3.00	4.00	4.00
	H2	kW	0.75	1.1	1.5	2.20	2.20	2.20	3.00	3.00	3.00	4.00	5.50
	H3	kW	1.1	1.5	1.5	2.20	2.20	3.00	3.00	4.00	4.00	4.00	5.50
	V1	kW	0.75	1.1	1.1	1.50	2.20	2.20	2.20	3.00	3.00	4.00	4.00
Dimension	H1	Length	mm	953	1053	1053	1153	1203	1353	1353	1553	1703	1953
		Width	mm	1110	1160	1160	1160	1260	1260	1410	1410	1460	1360
		Height	mm	720	790	920	990	1070	1070	1170	1170	1170	1290
	H2	Length	mm	953	1053	1053	1153	1203	1353	1353	1553	1703	1953
		Width	mm	1590	1640	1640	1640	1740	1740	1990	1990	2040	1940
		Height	mm	720	790	920	990	1070	1070	1170	1170	1170	1290
	H3	Length	mm	953	1053	1053	1153	1203	1353	1353	1553	1703	1953
		Width	mm	2040	2090	2090	2090	2190	2190	2440	2440	2490	2390
		Height	mm	720	790	920	990	1070	1070	1170	1170	1170	1290
	V1	Length	mm	953	1053	1053	1153	1203	1353	1353	1553	1703	1953
		Width	mm	710	710	810	810	810	810	960	960	960	960
		Height	mm	1220	1420	1570	1620	1770	1770	2020	2020	2020	2040
Weight	H1	kg	148	167	186	211	242	256	299	325	350	442	447
	H2	kg	177	201	230	261	288	319	343	392	426	525	569
	H3	kg	197	224	249	282	310	345	394	433	471	574	622
	V1	kg	153	175	206	231	257	272	326	360	367	481	491
Sound Pressure Level	H1/V1	dB(A)	58	59	61	62	64	64	65	66	67	68	68
	H2/H3	dB(A)	59	60	62	63	65	65	66	67	68	69	69
Chilled Water Pipe Diameter		DN	50	50	50	50	65	65	65	65	65	80	80
Condensate Water Pipe Diameter		DN	25	25	25	25	25	25	25	25	25	32	32

Note:

1) Cooling:

a) 35°C DB / 28°C WB air entering condition

b) 7°C entering water temperature and 12°C leaving water temperature

2) Heating:

a) 7°C DB air entering condition

b) 60°C entering water temperature and water flow rate for heating equals to water flow rate for cooling

3) ESP value does not consider static pressure of humidifier, ESP has to be reduced by 20Pa if humidifier is required.

4) ESP value is for nominal condition only. Please refer "Fan Static Pressure vs Motor Power Chart" for different ESP application.

5) 4 rows cooling coil and 1 row or 2 rows heating coil is available upon request.

6) Manufacturer reserves the rights to change the specifications without prior notice.

General Data - Belt Driven Cooling Coil - 4 Rows (Fresh Air)

Model		FAD	180D	210D	240D	270D	300D	330D	350D	400D	450D	500D
Air Flow		m ³ /h	18000	21000	24000	27000	30000	33000	35000	40000	45000	50000
Nominal Cooling Capacity		kW	230.5	276.3	319.9	359.9	384.1	445.7	454.3	477.1	536.7	605.1
Nominal Heating Capacity		kW	257.6	303.6	348.8	389.7	420.5	482.0	490.5	525.2	594.2	663.9
Water Flow Rate		l/s	10.98	13.16	15.24	17.14	18.30	21.23	21.64	22.7	25.60	28.8
Water Pressure Drop		kPa	20.7	28.1	39.6	42.6	43.2	59.8	63.7	40.3	45.3	51.6
External Static Pressure	H1	Pa	320	320	320	420	420	420	470	420	420	420
	H2	Pa	320	320	320	420	420	420	420	420	420	420
	H3	Pa	320	320	320	370	370	370	370	370	370	370
	V1	Pa	320	320	320	420	420	420	470	420	420	420
Motor Power	H1	kW	5.50	7.50	7.50	11.00	11.00	15.00	15.00	15.00	18.50	22.00
	H2	kW	5.50	7.50	7.50	11.00	15.00	15.00	15.00	15.00	18.50	22.00
	H3	kW	7.50	11.00	11.00	11.00	15.00	15.00	15.00	15.00	18.50	22.00
	V1	kW	5.50	7.50	7.50	11.00	11.00	15.00	15.00	15.00	18.50	22.0
Dimension	H1	Length	mm	2153	2353	2653	2653	2653	2903	3053	3053	3153
		Width	mm	1510	1510	1510	1510	1560	1610	1710	1760	1760
		Height	mm	1340	1390	1390	1520	1640	1640	1640	1893	2020
	H2	Length	mm	2153	2353	2653	2653	2653	2903	3053	3053	3153
		Width	mm	2090	2090	2090	2290	2340	2390	2490	2540	2640
		Height	mm	1340	1390	1390	1520	1640	1640	1640	1893	2020
	H3	Length	mm	2153	2353	2653	2653	2653	2903	3053	3053	3153
		Width	mm	2540	2540	2540	2740	2790	2840	2940	2940	3040
		Height	mm	1340	1390	1390	1520	1640	1640	1640	1893	2020
	V1	Length	mm	2153	2353	2653	2653	2653	2903	3053	3053	3153
		Width	mm	960	960	960	960	960	1160	1160	1160	1160
		Height	mm	2240	2290	2290	2440	2540	2640	2690	2940	3090
Weight	H1	kg	539	584	644	728	761	882	953	986	1070	1097
	H2	kg	652	707	780	912	958	1084	1170	1202	1285	1324
	H3	kg	727	809	885	978	1033	1185	1246	1306	1421	1462
	V1	kg	570	631	682	735	786	952	1020	1067	1112	1194
Sound Pressure Level		H1/V1	dB(A)	69	70	71	72	73	73	73.5	73.5	74
		H2/H3	dB(A)	70	71	72	73	74	74	75	75	76
Chilled Water Pipe Diameter		DN	80	80	80	80	80	80	80	80	80	80
Condensate Water Pipe Diameter		DN	32	32	32	32	32	32	32	32	32	32

Note:

1) Cooling:

a) 35°C DB / 28°C WB air entering condition

b) 7°C entering water temperature and 12°C leaving water temperature

2) Heating:

a) 7°C DB air entering condition

b) 60°C entering water temperature and water flow rate for heating equals to water flow rate for cooling

3) ESP value does not consider static pressure of humidifier, ESP has to be reduced by 20Pa if humidifier is required.

4) ESP value is for nominal condition only. Please refer "Fan Static Pressure vs Motor Power Chart" for different ESP application.

5) 4 rows cooling coil and 1 row or 2 rows heating coil is available upon request.

6) Manufacturer reserves the rights to change the specifications without prior notice.

General Data - Belt Driven Cooling Coil - 6 Rows (Return Air)

Model		FAD	030D	040D	050D	060D	070D	080D	090D	105D	120D	135D	150D
Air Flow		m ³ /h	3000	4000	5000	6000	7000	8000	9000	10500	12000	13500	15000
Nominal Cooling Capacity		kW	22.7	29.6	34.5	42.4	48.8	57.2	65.1	74.2	89.9	104.1	115.0
Nominal Heating Capacity		kW	41.9	54.6	64.5	78.2	92.5	106.7	120.6	138.1	165.3	187.7	207.6
Water Flow Rate		l/s	1.08	1.41	1.64	2.02	2.33	2.72	3.10	3.53	4.28	4.96	5.48
Water Pressure Drop		kPa	32.4	44.9	40.3	53.5	23.4	34.0	30.0	42.4	32.3	46.7	50.3
External Static Pressure	H1	Pa	170	170	170	170	220	220	220	220	220	220	220
	H2	Pa	170	170	170	170	220	220	220	220	220	220	220
	H3	Pa	170	170	170	170	220	220	220	220	220	220	220
	V1	Pa	170	170	170	170	220	220	220	220	220	220	220
Motor Power	H1	kW	0.75	1.10	1.10	1.50	2.20	2.20	2.20	3.00	3.00	4.00	4.00
	H2	kW	0.75	1.1	1.5	2.20	2.20	2.20	3.00	3.00	3.00	4.00	5.50
	H3	kW	1.1	1.5	1.5	2.20	2.20	3.00	3.00	4.00	4.00	4.00	5.50
	V1	kW	0.75	1.1	1.1	1.50	2.20	2.20	2.20	3.00	3.00	4.00	4.00
Dimension	H1	Length	mm	953	1053	1053	1153	1203	1353	1353	1553	1703	1953
		Width	mm	1110	1160	1160	1160	1260	1260	1410	1410	1460	1360
		Height	mm	720	790	920	990	1070	1070	1170	1170	1170	1290
	H2	Length	mm	953	1053	1053	1153	1203	1353	1353	1553	1703	1953
		Width	mm	1590	1640	1640	1640	1740	1740	1990	1990	2040	1940
		Height	mm	720	790	920	990	1070	1070	1170	1170	1170	1290
	H3	Length	mm	953	1053	1053	1153	1203	1353	1353	1553	1703	1953
		Width	mm	2040	2090	2090	2090	2190	2190	2440	2440	2490	2390
		Height	mm	720	790	920	990	1070	1070	1170	1170	1170	1290
	V1	Length	mm	953	1053	1053	1153	1203	1353	1353	1553	1703	1953
		Width	mm	710	710	810	810	810	810	960	960	960	960
		Height	mm	1220	1420	1570	1620	1770	1770	2020	2020	2020	2040
Weight	H1	kg	155	175	197	223	257	272	318	342	376	459	470
	H2	kg	184	208	240	274	303	335	362	408	452	554	597
	H3	kg	201	232	259	295	324	362	412	450	494	598	645
	V1	kg	160	183	216	244	272	289	344	376	394	518	520
Sound Pressure Level	H1/V1	dB(A)	58	59	61	62	64	64	65	66	67	68	68
	H2/H3	dB(A)	59	60	62	63	65	65	66	67	68	69	69
Chilled Water Pipe Diameter		DN	40	40	40	40	50	50	50	50	50	65	65
Condensate Water Pipe Diameter		DN	25	25	25	25	25	25	25	25	25	32	32

Note:

1) Cooling:

a) 27°C DB / 19.5°C WB air entering condition

b) 7°C entering water temperature and 12°C leaving water temperature

2) Heating:

a) 15°C DB air entering condition

b) 60°C entering water temperature and water flow rate for heating equals to water flow rate for cooling

3) ESP value does not consider static pressure of humidifier, ESP has to be reduced by 20Pa if humidifier is required.

4) ESP value is for nominal condition only. Please refer "Fan Static Pressure vs Motor Power Chart" for different ESP application.

5) 6 rows cooling coil and 1 row or 2 rows heating coil is available upon request.

6) Manufacturer reserves the rights to change the specifications without prior notice.

General Data - Belt Driven Cooling Coil - 6 Rows (Return Air)

Model		FAD	180D	210D	240D	270D	300D	330D	350D	400D	450D	500D
Air Flow		m ³ /h	18000	21000	24000	27000	30000	33000	35000	40000	45000	50000
Nominal Cooling Capacity		kW	136.4	157.4	181.9	204.7	226.1	253.0	271.3	299.8	341.1	379.0
Nominal Heating Capacity		kW	252.5	289.4	332.2	372.0	413.4	456.8	486.9	546.1	617.2	685.9
Water Flow Rate		l/s	6.50	7.50	8.67	9.75	10.77	12.05	12.92	14.3	16.30	18.1
Water Pressure Drop		kPa	21.0	26.4	37.7	39.0	39.8	52.2	61.6	52.5	59.8	65.9
External Static Pressure	H1	Pa	270	270	270	370	370	370	420	370	370	370
	H2	Pa	270	270	270	370	370	370	370	370	370	370
	H3	Pa	270	270	270	320	320	320	320	320	320	320
	V1	Pa	270	270	270	370	370	370	420	370	370	370
Motor Power	H1	kW	5.50	7.50	7.50	11.00	11.00	15.00	15.00	15.00	18.50	22.00
	H2	kW	5.50	7.50	7.50	11.00	15.00	15.00	15.00	15.00	18.50	22.00
	H3	kW	7.50	11.00	11.00	11.00	15.00	15.00	15.00	15.00	18.50	22.00
	V1	kW	5.50	7.50	7.50	11.00	11.00	15.00	15.00	15.00	18.50	22.0
Dimension	H1	Length	mm	2153	2353	2653	2653	2653	2903	3053	3053	3153
		Width	mm	1510	1510	1510	1510	1560	1610	1710	1760	1760
		Height	mm	1340	1390	1390	1520	1640	1640	1640	1893	2020
	H2	Length	mm	2153	2353	2653	2653	2653	2903	3053	3053	3153
		Width	mm	2090	2090	2090	2290	2340	2390	2490	2540	2640
		Height	mm	1340	1390	1390	1520	1640	1640	1640	1893	2020
	H3	Length	mm	2153	2353	2653	2653	2653	2903	3053	3053	3153
		Width	mm	2540	2540	2540	2740	2790	2840	2940	2940	3040
		Height	mm	1340	1390	1390	1520	1640	1640	1640	1893	2020
	V1	Length	mm	2153	2353	2653	2653	2653	2903	3053	3053	3153
		Width	mm	960	960	960	960	960	1160	1160	1160	1160
		Height	mm	2240	2290	2290	2440	2540	2640	2690	2940	3090
Weight	H1	kg	580	626	692	781	813	947	1022	1099	1187	1231
	H2	kg	693	750	829	965	1017	1149	1239	1315	1403	1459
	H3	kg	759	842	922	1022	1092	1250	1236	1400	1539	1597
	V1	kg	611	673	730	789	845	1018	1089	1181	1129	1330
Sound Pressure Level	H1/V1	dB(A)	69	70	71	72	73	73	73.5	73.5	74	74
	H2/H3	dB(A)	70	71	72	73	74	74	75	75	76	76
Chilled Water Pipe Diameter		DN	65	65	65	65	65	80	80	80	80	80
Condensate Water Pipe Diameter		DN	32	32	32	32	32	32	32	32	32	32

Note:

1) Cooling:

a) 27°C DB / 19.5°C WB air entering condition

b) 7°C entering water temperature and 12°C leaving water temperature

2) Heating:

a) 15°C DB air entering condition

b) 60°C entering water temperature and water flow rate for heating equals to water flow rate for cooling

3) ESP value does not consider static pressure of humidifier, ESP has to be reduced by 20Pa if humidifier is required.

4) ESP value is for nominal condition only. Please refer "Fan Static Pressure vs Motor Power Chart" for different ESP application.

5) 6 rows cooling coil and 1 row or 2 rows heating coil is available upon request.

6) Manufacturer reserves the rights to change the specifications without prior notice.



General Data - Belt Driven Cooling Coil - 6 Rows (Fresh Air)

Model		FAD	030D	040D	050D	060D	070D	080D	090D	105D	120D	135D	150D
Air Flow		m ³ /h	3000	4000	5000	6000	7000	8000	9000	10500	12000	13500	15000
Nominal Cooling Capacity		kW	47.9	63.8	79.8	97.9	115.4	127.7	140.5	162.1	193.6	222.6	252.6
Nominal Heating Capacity		kW	48.9	67.0	83.9	100.5	116.7	134.5	146.7	167.3	196.5	223.1	252.3
Water Flow Rate		l/s	2.28	3.04	3.80	4.66	5.50	6.08	6.69	7.72	9.22	10.60	12.03
Water Pressure Drop		kPa	45.9	32.4	29.6	39.4	48.0	21.6	20.5	29.3	43.0	61.1	69.3
External Static Pressure	H1	Pa	170	170	170	170	220	220	220	220	220	220	220
	H2	Pa	170	170	170	170	220	220	220	220	220	220	220
	H3	Pa	170	170	170	170	220	220	220	220	220	220	220
	V1	Pa	170	170	170	170	220	220	220	220	220	220	220
Motor Power	H1	kW	0.75	1.10	1.10	1.50	2.20	2.20	2.20	3.00	3.00	4.00	4.00
	H2	kW	0.75	1.1	1.5	2.20	2.20	2.20	3.00	3.00	3.00	4.00	5.50
	H3	kW	1.1	1.5	1.5	2.20	2.20	3.00	3.00	4.00	4.00	4.00	5.50
	V1	kW	0.75	1.1	1.1	1.50	2.20	2.20	2.20	3.00	3.00	4.00	4.00
Dimension	H1	Length	mm	953	1053	1053	1153	1203	1353	1353	1553	1703	1953
		Width	mm	1110	1160	1160	1160	1260	1260	1410	1410	1460	1360
		Height	mm	720	790	920	990	1070	1070	1170	1170	1170	1190
	H2	Length	mm	953	1053	1053	1153	1203	1353	1353	1553	1703	1953
		Width	mm	1590	1640	1640	1640	1740	1740	1990	1990	2040	1940
		Height	mm	720	790	920	990	1070	1070	1170	1170	1170	1190
	H3	Length	mm	953	1053	1053	1153	1203	1353	1353	1553	1703	1953
		Width	mm	2040	2090	2090	2090	2190	2190	2440	2440	2490	2390
		Height	mm	720	790	920	990	1070	1070	1170	1170	1170	1190
	V1	Length	mm	953	1053	1053	1153	1203	1353	1353	1553	1703	1953
		Width	mm	710	710	810	810	810	810	960	960	960	960
		Height	mm	1220	1420	1570	1620	1770	1770	2020	2020	2020	2040
Weight	H1	kg	155	175	197	223	257	272	318	342	376	459	470
	H2	kg	184	208	240	274	303	335	362	408	452	554	597
	H3	kg	201	232	259	295	324	362	412	450	494	598	645
	V1	kg	160	183	216	244	272	289	344	376	394	518	520
Sound Pressure Level	H1/V1	dB(A)	58	59	61	62	64	64	65	66	67	68	68
	H2/H3	dB(A)	59	60	62	63	65	65	66	67	68	69	69
Chilled Water Pipe Diameter		DN	50	50	50	50	65	65	65	65	65	80	80
Condensate Water Pipe Diameter		DN	25	25	25	25	25	25	25	25	25	32	32

Note:

1) Cooling:

a) 35°C DB / 28°C WB air entering condition

b) 7°C entering water temperature and 12°C leaving water temperature

2) Heating:

a) 7°C DB air entering condition

b) 60°C entering water temperature and water flow rate for heating equals to water flow rate for cooling

3) ESP value does not consider static pressure of humidifier, ESP has to be reduced by 20Pa if humidifier is required

4) ESP value is for nominal condition only. Please refer "Fan Static Pressure vs Motor Power Chart" for different ESP application.

5) * Indicates the water temperature difference is more than 5°C.

6) 6 rows cooling coil and 1 row or 2 rows heating coil is available upon request.

7) Manufacturer reserves the rights to change the specifications without prior notice.



General Data - Belt Driven Cooling Coil - 6 Rows (Fresh Air)

Model		FAD	180D	210D	240D	270D	300D	330D	350D	400D	450D	500D
Air Flow		m ³ /h	18000	21000	24000	27000	30000	33000	35000	40000	45000	50000
Nominal Cooling Capacity		kW	293.6	331.5	*366.2	*409.6	*455.2	*503.6	*552.5	*589.3	*647.2	*727.9
Nominal Heating Capacity		kW	296.1	336.1	*380.6	*428.2	*473.6	*523.3	*578.3	*622.5	*679.6	*774.6
Water Flow Rate		l/s	13.11	13.93	*12.5	*13.9	*15.5	*17.1	*15.5	*18.7	*19.3	*21.7
Water Pressure Drop		kPa	71.8	78.3	*70.7	*72.4	*75.0	*96.3	*83.6	*83.5	*79.8	*89.9
External Static Pressure	H1	Pa	270	270	270	370	370	370	420	370	370	370
	H2	Pa	270	270	270	370	370	370	370	370	370	370
	H3	Pa	270	270	270	320	320	320	320	320	320	320
	V1	Pa	270	270	270	370	370	370	420	370	370	370
Motor Power	H1	kW	5.50	7.50	7.50	11.00	11.00	15.00	15.00	15.00	18.50	22.00
	H2	kW	5.50	7.50	7.50	11.00	15.00	15.00	15.00	15.00	18.50	22.00
	H3	kW	7.50	11.00	11.00	11.00	15.00	15.00	15.00	15.00	18.50	22.00
	V1	kW	5.50	7.50	7.50	11.00	11.00	15.00	15.00	15.00	18.50	22.0
Dimension	H1	Length	mm	2153	2353	2653	2653	2653	2903	3053	3053	3153
		Width	mm	1510	1510	1510	1510	1560	1610	1710	1760	1760
		Height	mm	1340	1390	1390	1520	1640	1640	1640	1893	2020
	H2	Length	mm	2153	2353	2653	2653	2653	2903	3053	3053	3153
		Width	mm	2090	2090	2090	2290	2340	2390	2490	2540	2640
		Height	mm	1340	1390	1390	1520	1640	1640	1640	1893	2020
	H3	Length	mm	2153	2353	2653	2653	2653	2903	3053	3053	3153
		Width	mm	2540	2540	2540	2740	2790	2840	2940	2940	3040
		Height	mm	1340	1390	1390	1520	1640	1640	1640	1893	2020
	V1	Length	mm	2153	2353	2653	2653	2653	2903	3053	3053	3153
		Width	mm	960	960	960	960	960	1160	1160	1160	1160
		Height	mm	2240	2290	2290	2440	2540	2640	2690	2940	3090
Weight	H1	kg	580	626	692	781	813	947	1022	1099	1187	1231
	H2	kg	693	750	829	965	1017	1149	1239	1315	1403	1459
	H3	kg	759	842	922	1022	1092	1250	1236	1400	1539	1597
	V1	kg	611	673	730	789	845	1018	1089	1181	1129	1330
Sound Pressure Level		H1/V1	dB(A)	69	70	71	72	73	73	73.5	73.5	74
		H2/H3	dB(A)	70	71	72	73	74	74	75	75	76
Chilled Water Pipe Diameter		DN	80	80	80	80	80	80	80	80	80	80
Condensate Water Pipe Diameter		DN	32	32	32	32	32	32	32	32	32	32

Note:

1) Cooling:

a) 35°C DB / 28°C WB air entering condition

b) 7°C entering water temperature and 12°C leaving water temperature

2) Heating:

a) 7°C DB air entering condition

b) 60°C entering water temperature and water flow rate for heating equals to water flow rate for cooling

3) ESP value does not consider static pressure of humidifier, ESP has to be reduced by 20Pa if humidifier is required

4) ESP value is for nominal condition only. Please refer "Fan Static Pressure vs Motor Power Chart" for different ESP application.

5) * Indicates the water temperature difference is more than 5°C.

6) 6 rows cooling coil and 1 row or 2 rows heating coil is available upon request.

7) Manufacturer reserves the rights to change the specifications without prior notice.

Equipment Selection

Fan Static Pressure vs Motor Power Chart - Ceiling Hung

FFD	Air Flow (m ³ /h)	Rows	External Static Pressure (Pa)												
			40	80	120	160	200	240	280	320	360	400	440	480	520
010EC	1000	4	0.18	0.18	0.18	0.25	0.25	0.25	0.32						
		6	0.18	0.18	0.25	0.25	0.25	0.32							
015EC	1500	4	0.18	0.18	0.25	0.25	0.25	0.25	0.32						
		6	0.18	0.25	0.25	0.25	0.25	0.32							
020EC	2000	4	0.18	0.32	0.32	0.32	0.32	0.32	0.32	0.37					
		6	0.32	0.32	0.32	0.32	0.32	0.32	0.37						
025EC	2500	4	0.32	0.32	0.37	0.45	0.45	0.45	0.55	0.55					
		6	0.32	0.37	0.45	0.45	0.45	0.55	0.55						
030EC	3000	4	0.55	0.55	0.75	0.75	0.75	0.75	1.10	1.10	1.10	1.10			
		6	0.75	0.75	0.75	0.75	1.10	1.10	1.10	1.10	1.10	1.10			
040EC	4000	4	0.75	1.10	1.10	1.10	1.10	1.10	1.10	1.50	1.50	1.50	1.50		
		6	1.10	1.10	1.10	1.10	1.10	1.50	1.50	1.50	1.50	1.50	1.50		
050EC	5000	4	1.10	1.10	1.50	1.50	1.50	1.50	2.20	2.20	2.20	2.20	2.20		
		6	1.50	1.50	1.50	1.50	2.20	2.20	2.20	2.20	2.20	2.20	2.20		
060EC	6000	4	1.10	1.50	1.50	1.50	1.50	2.20	2.20	2.20	2.20	2.20			
		6	1.50	1.50	1.50	2.20	2.20	2.20	2.20	2.20	2.20	3.00			
070EC	7000	4	1.50	1.50	1.50	2.20	2.20	2.20	2.20	2.20	3.00	3.00			
		6	1.50	1.50	2.20	2.20	2.20	2.20	3.00	3.00	3.00	3.00			
080EC	8000	4	2.20	2.20	2.20	2.20	2.20	2.20	3.00	3.00	3.00	3.00			
		6	2.20	2.20	2.20	2.20	3.00	3.00	3.00	3.00	3.00	4.00			
090EC	9000	4	1.50	2.20	2.20	2.20	2.20	2.20	3.00	3.00	3.00	3.00			
		6	2.20	2.20	2.20	2.20	2.20	3.00	3.00	3.00	3.00	3.00			
105EC	10500	4	2.20	3.00	3.00	3.00	3.00	3.00	3.00	3.00	4.00	4.00	4.00		
		6	3.00	3.00	3.00	3.00	3.00	3.00	4.00	4.00	4.00	4.00	4.00		
120EC	12000	4		3.00	3.00	3.00	3.00	4.00	4.00	4.00	4.00	5.50	5.50		
		6		3.00	3.00	4.00	4.00	4.00	4.00	5.50	5.50	5.50			
135EC	13500	4			3.00	3.00	3.00	3.00	4.00	4.00	4.00	4.00	5.50	5.50	5.50
		6			3.00	3.00	4.00	4.00	4.00	4.00	5.50	5.50	5.50	5.50	5.50
150EC	15000	4		3.00	3.00	4.00	4.00	4.00	4.00	5.50	5.50	5.50	5.50	5.50	
		6		4.00	4.00	4.00	4.00	5.50	5.50	5.50	5.50	5.50	5.50	5.50	

Note:

1. The table presents the motor power for different models under different external static pressure.
2. Values with bold are values under nominal external static pressure.
3. The unit is in kW.

Fan Static Pressure vs Motor Power Chart - H1 / V1 Series

Model : FAD	Air Flow (m ³ /h)	Rows	Total External Pressure (Pa)											
			120	170	220	270	320	370	420	470	520	570	620	670
030D	3000	4	0.55	0.75	0.75	0.75	1.10	1.10	1.10	1.10				
		6	0.75	0.75	0.75	1.10	1.10	1.10	1.10	1.10				
040D	4000	4	1.10	1.10	1.10	1.10	1.10	1.50	1.50	1.50				
		6	1.10	1.10	1.10	1.10	1.50	1.50	1.50	1.50				
050D	5000	4	1.10	1.10	1.10	1.50	1.50	1.50	1.50	2.20				
		6	1.10	1.10	1.50	1.50	1.50	1.50	2.20	2.20				
060D	6000	4	1.50	1.50	1.50	2.20	2.20	2.20	2.20	2.20				
		6	1.50	1.50	2.20	2.20	2.20	2.20	2.20	3.00				
070D	7000	4	1.50	1.50	1.50	2.20	2.20	2.20	2.20	2.20	3.00	3.00		
		6	1.50	1.50	2.20	2.20	2.20	2.20	2.20	3.00	3.00	3.00		
080D	8000	4	2.20	2.20	2.20	2.20	2.20	3.00	3.00	3.00	3.00	3.00		
		6	2.20	2.20	2.20	2.20	3.00	3.00	3.00	3.00	3.00	4.00		
090D	9000	4	2.20	2.20	2.20	2.20	3.00	3.00	3.00	3.00	4.00	4.00		
		6	2.20	2.20	2.20	3.00	3.00	3.00	3.00	4.00	4.00	4.00		
105D	10500	4	2.20	3.00	3.00	3.00	3.00	3.00	4.00	4.00	4.00	4.00		
		6	3.00	3.00	3.00	3.00	3.00	4.00	4.00	4.00	4.00	5.50		
120D	12000	4	2.20	3.00	3.00	3.00	3.00	4.00	4.00	4.00	4.00	5.50		
		6	3.00	3.00	3.00	3.00	4.00	4.00	4.00	4.00	5.50	5.50		
135D	13500	4	3.00	3.00	3.00	4.00	4.00	4.00	4.00	5.50	5.50	5.50		
		6	3.00	3.00	4.00	4.00	4.00	4.00	5.50	5.50	5.50	5.50		
150D	15000	4	3.00	4.00	4.00	4.00	5.50	5.50	5.50	5.50	5.50	7.50		
		6	4.00	4.00	4.00	5.50	5.50	5.50	5.50	5.50	7.50	7.50		
180D	18000	4	4.00	4.00	5.50	5.50	5.50	5.50	7.50	7.50	7.50	7.50		
		6	4.00	5.50	5.50	5.50	5.50	7.50	7.50	7.50	7.50	7.50		
210D	21000	4	5.50	5.50	5.50	7.50	7.50	7.50	7.50	11.00	11.00	11.00		
		6	5.50	5.50	7.50	7.50	7.50	7.50	11.00	11.00	11.00	11.00		
240D	24000	4	5.50	5.50	5.50	7.50	7.50	7.50	11.00	11.00	11.00	11.00		
		6	5.50	5.50	7.50	7.50	7.50	11.00	11.00	11.00	11.00	11.00		
270D	27000	4	7.50	7.50	7.50	7.50	11.00	11.00	11.00	11.00	11.00	11.00	15.00	15.00
		6	7.50	7.50	7.50	11.00	11.00	11.00	11.00	11.00	11.00	15.00	15.00	
300D	30000	4	7.50	11.00	11.00	11.00	11.00	11.00	11.00	15.00	15.00	15.00	15.00	
		6	11.00	11.00	11.00	11.00	11.00	11.00	15.00	15.00	15.00	15.00		
330D	33000	4	7.50	11.00	11.00	11.00	11.00	11.00	15.00	15.00	15.00	15.00	15.00	15.00
		6	11.00	11.00	11.00	11.00	11.00	15.00	15.00	15.00	15.00	15.00	15.00	18.50
350D	35000	4	7.50	7.50	11.00	11.00	11.00	11.00	11.00	15.00	15.00	15.00	15.00	15.00
		6	7.50	11.00	11.00	11.00	11.00	11.00	15.00	15.00	15.00	15.00	15.00	18.50
400D	40000	4	11.00	11.00	11.00	11.00	15.00	15.00	15.00	15.00	15.00	18.50	18.50	18.50
		6	11.00	11.00	11.00	15.00	15.00	15.00	15.00	15.00	18.50	18.50	18.50	18.50
450D	45000	4	15.00	15.00	15.00	15.00	15.00	15.00	18.50	18.50	18.50	18.50	22.00	22.00
		6	15.00	15.00	15.00	15.00	15.00	18.50	18.50	18.50	18.50	22.00	22.00	
500D	50000	4	15.00	15.00	18.50	18.50	18.50	18.50	22.00	22.00	22.00			
		6	15.00	18.50	18.50	18.50	18.50	22.00	22.00	22.00				

Note:

- 1) Value shown in table is the power input for motor under different total pressure. Bolded values are power input under nominal total pressure.
- 2) Total External Pressure = External Static Pressure + Fan Leaving Dynamic Pressure
- 3) Unit in kW

Fan Static Pressure vs Motor Power Chart - H2 Series

Model : FAD	Air Flow (m3/h)	Rows	Total External Pressure (Pa)											
			120	170	220	270	320	370	420	470	520	570	620	670
030D	3000	4	0.75	0.75	0.75	1.10	1.10	1.10	1.10	1.10				
		6	0.75	0.75	1.10	1.10	1.10	1.10	1.10	1.50				
040D	4000	4	1.10	1.10	1.10	1.10	1.50	1.50	1.50	2.20				
		6	1.10	1.10	1.10	1.50	1.50	1.50	2.20	2.20				
050D	5000	4	1.10	1.10	1.50	1.50	1.50	1.50	2.20	2.20				
		6	1.10	1.50	1.50	1.50	1.50	2.20	2.20	2.20				
060D	6000	4	1.50	1.50	2.20	2.20	2.20	2.20	2.20	3.00				
		6	1.50	2.20	2.20	2.20	2.20	2.20	3.00	3.00				
070D	7000	4	1.50	1.50	2.20	2.20	2.20	2.20	2.20	3.00	3.00	3.00		
		6	1.50	2.20	2.20	2.20	2.20	2.20	3.00	3.00	3.00	3.00		
080D	8000	4	2.20	2.20	2.20	2.20	3.00	3.00	3.00	3.00	3.00	4.00		
		6	2.20	2.20	2.20	3.00	3.00	3.00	3.00	3.00	4.00	4.00		
090D	9000	4	2.20	2.20	2.20	3.00	3.00	3.00	3.00	4.00	4.00	4.00		
		6	2.20	2.20	3.00	3.00	3.00	3.00	4.00	4.00	4.00	4.00		
105D	10500	4	3.00	3.00	3.00	3.00	4.00	4.00	4.00	4.00	4.00	5.50		
		6	3.00	3.00	3.00	4.00	4.00	4.00	4.00	4.00	5.50	5.50		
120D	12000	4	3.00	3.00	3.00	3.00	4.00	4.00	4.00	5.50	5.50	5.50		
		6	3.00	3.00	3.00	4.00	4.00	4.00	5.50	5.50	5.50	5.50		
135D	13500	4	3.00	3.00	4.00	4.00	4.00	4.00	5.50	5.50	5.50	5.50		
		6	3.00	4.00	4.00	4.00	4.00	5.50	5.50	5.50	5.50	7.50		
150D	15000	4	4.00	4.00	4.00	5.50	5.50	5.50	5.50	5.50	7.50	7.50		
		6	4.00	4.00	5.50	5.50	5.50	5.50	5.50	7.50	7.50	7.50		
180D	18000	4	4.00	5.50	5.50	5.50	5.50	7.50	7.50	7.50	7.50	7.50		
		6	5.50	5.50	5.50	5.50	7.50	7.50	7.50	7.50	7.50	11.00		
210D	21000	4	5.50	5.50	7.50	7.50	7.50	7.50	11.00	11.00	11.00	11.00		
		6	5.50	7.50	7.50	7.50	7.50	11.00	11.00	11.00	11.00	11.00		
240D	24000	4	5.50	5.50	7.50	7.50	7.50	11.00	11.00	11.00	11.00	11.00		
		6	5.50	7.50	7.50	7.50	11.00	11.00	11.00	11.00	11.00			
270D	27000	4	7.50	7.50	7.50	11.00	11.00	11.00	11.00	11.00	11.00	15.00	15.00	
		6	7.50	7.50	11.00	11.00	11.00	11.00	11.00	11.00	15.00	15.00		
300D	30000	4	11.00	11.00	11.00	11.00	11.00	11.00	15.00	15.00	15.00	15.00		
		6	11.00	11.00	11.00	11.00	11.00	15.00	15.00	15.00	15.00			
330D	33000	4	11.00	11.00	11.00	11.00	11.00	15.00	15.00	15.00	15.00	15.00	15.00	
		6	11.00	11.00	11.00	11.00	15.00	15.00	15.00	15.00	15.00	15.00	18.50	
350D	35000	4	7.50	11.00	11.00	11.00	11.00	15.00	15.00	15.00	15.00	15.00	15.00	
		6	11.00	11.00	11.00	11.00	15.00	15.00	15.00	15.00	15.00	15.00	18.50	
400D	40000	4	11.00	11.00	11.00	15.00	15.00	15.00	15.00	15.00	18.50	18.50	18.50	
		6	11.00	11.00	15.00	15.00	15.00	15.00	15.00	18.50	18.50	18.50	18.50	
450D	45000	4	15.00	15.00	15.00	15.00	15.00	18.50	18.50	18.50	18.50	22.00	22.00	
		6	15.00	15.00	15.00	15.00	18.50	18.50	18.50	18.50	22.00	22.00		
500D	50000	4	15.00	18.50	18.50	18.50	18.50	22.00	22.00	22.00				
		6	18.50	18.50	18.50	18.50	22.00	22.00	22.00					

Note:

- 1) Value shown in table is the power input for motor under different total pressure. Bolded values are power input under nominal total pressure.
- 2) Total External Pressure = External Static Pressure + Fan Leaving Dynamic Pressure
- 3) Unit in kW

Fan Static Pressure vs Motor Power Chart - H3 Series

Model : FAD	Air Flow (m3/h)	Rows	Total External Pressure (Pa)											
			120	170	220	270	320	370	420	470	520	570	620	670
030D	3000	4	0.75	1.10	1.10	1.10	1.10	1.10	1.50	1.50				
		6	1.10	1.10	1.10	1.10	1.10	1.50	1.50					
040D	4000	4	1.10	1.10	1.50	1.50	1.50	2.20	2.20	2.20				
		6	1.10	1.50	1.50	1.50	2.20	2.20	2.20	2.20				
050D	5000	4	1.50	1.50	1.50	1.50	2.20	2.20	2.20	2.20				
		6	1.50	1.50	1.50	2.20	2.20	2.20	2.20	2.20				
060D	6000	4	2.20	2.20	2.20	2.20	2.20	3.00	3.00	3.00				
		6	2.20	2.20	2.20	2.20	3.00	3.00	3.00					
070D	7000	4	2.20	2.20	2.20	2.20	2.20	3.00	3.00	3.00	3.00	3.00		
		6	2.20	2.20	2.20	2.20	3.00	3.00	3.00	3.00	3.00	4.00		
080D	8000	4	2.20	2.20	3.00	3.00	3.00	3.00	3.00	3.00	4.00	4.00		
		6	2.20	3.00	3.00	3.00	3.00	3.00	3.00	4.00	4.00	4.00		
090D	9000	4	2.20	3.00	3.00	3.00	3.00	4.00	4.00	4.00	4.00	4.00		
		6	3.00	3.00	3.00	3.00	4.00	4.00	4.00	4.00	4.00	5.50		
105D	10500	4	3.00	3.00	4.00	4.00	4.00	4.00	4.00	5.50	5.50	5.50		
		6	3.00	4.00	4.00	4.00	4.00	4.00	5.50	5.50	5.50	5.50		
120D	12000	4	3.00	3.00	4.00	4.00	4.00	5.50	5.50	5.50	5.50			
		6	3.00	4.00	4.00	4.00	5.50	5.50	5.50	5.50				
135D	13500	4	4.00	4.00	4.00	4.00	5.50	5.50	5.50	5.50	7.50			
		6	4.00	4.00	4.00	5.50	5.50	5.50	5.50	7.50				
150D	15000	4	4.00	5.50	5.50	5.50	5.50	5.50	7.50	7.50	7.50	7.50		
		6	5.50	5.50	5.50	5.50	5.50	7.50	7.50	7.50	7.50			
180D	18000	4	5.50	5.50	5.50	7.50	7.50	7.50	7.50	7.50	11.00	11.00		
		6	5.50	5.50	7.50	7.50	7.50	7.50	7.50	11.00	11.00	11.00		
210D	21000	4	7.50	7.50	7.50	7.50	11.00	11.00	11.00	11.00	11.00	11.00		
		6	7.50	7.50	7.50	11.00	11.00	11.00	11.00	11.00	11.00	11.00		
240D	24000	4	7.50	7.50	7.50	11.00	11.00	11.00	11.00	11.00				
		6	7.50	7.50	11.00	11.00	11.00	11.00	11.00					
270D	27000	4	7.50	11.00	11.00	11.00	11.00	11.00	11.00	15.00	15.00			
		6	11.00	11.00	11.00	11.00	11.00	11.00	15.00	15.00				
300D	30000	4	11.00	11.00	11.00	11.00	15.00	15.00	15.00	15.00				
		6	11.00	11.00	11.00	15.00	15.00	15.00	15.00					
330D	33000	4	11.00	11.00	11.00	15.00	15.00	15.00	15.00	15.00	15.00	18.50		
		6	11.00	11.00	15.00	15.00	15.00	15.00	15.00	15.00	18.50	18.50		
350D	35000	4	11.00	11.00	11.00	15.00	15.00	15.00	15.00	15.00	15.00			
		6	11.00	11.00	15.00	15.00	15.00	15.00	15.00	15.00	18.50			
400D	40000	4	11.00	15.00	15.00	15.00	15.00	15.00	18.50	18.50	18.50	18.50		
		6	15.00	15.00	15.00	15.00	15.00	18.50	18.50	18.50	18.50			
450D	45000	4	15.00	15.00	15.00	18.50	18.50	18.50	18.50	22.00	22.00			
		6	15.00	15.00	18.50	18.50	18.50	18.50	22.00	22.00				
500D	50000	4	18.50	18.50	18.50	22.00	22.00	22.00						
		6	18.50	18.50	22.00	22.00	22.00							

Note:

- 1) Value shown in table is the power input for motor under different total pressure. Bolded values are power input under nominal total pressure.
- 2) Total External Pressure = External Static Pressure + Fan Leaving Dynamic Pressure
- 3) Unit in kW

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