Concealed flexi type unit with low ESP Technical Data

FWE-DAFN5V3-L

Table of contents

FWE-DAFN5V3-L

1 Features

1 - 1 FWE-DAFN5V3-L

- Opposite water and electric connection: Left water connection and right electric connection
- Low unit casing height of 200mm
- Sirocco Fan leading to low noise operation
- Open control
- Multiple factory mounted valve combinations
- Increased flexibility of capacity setting in the field
- The air filter can easily be removed for cleaning

2 Specifications

1 - 1 FWE-DAFN5V3-L

Technical Specifications				FWE03DAFN5V3-L	FWE04DAFN5V3-L	FWE05DAFN5V3-L	FWE06DAFN5V3-L
Cooling capacity (standard conditions)	Latent capacity 4-pipe	High	kW	0.32	0.34	0.43	0.49
		Super high	kW	0.35	0.37	0.46	0.56
	Sensible capacity 4-pipe	Fan speed 1	kW	1.00	0.99	1.09	1.02
		Fan speed 2	kW	1.16	1.15	1.35	1.28
		Fan speed 3	kW	1.31	1.34	1.64	
		Fan speed 4	kW	1.45	1.53	1.97	
		Fan speed 5	kW	1.59	1.69	2.11	2.23
		Fan speed 6	kW		-		2.56
		Low	kW	1.00	1.15	1.35	1.64
		Medium	kW	1.31	1.34	1.64	1.97
		High	kW	1.59	1.69	2.11	2.56
	Total capacity 4-pipe	Fan speed 1	kW	1.22	1.21	1.33	1.24
		Fan speed 2	kW	1.41	1.40	1.64	1.56
		Fan speed 3	kW	1.60	1.64	2.00	2.01
		Fan speed 4	kW	1.77	1.87	2.40	
		Fan speed 5	kW	1.94	2.06	2.58	2.72
		Fan speed 6	kW		-		3.12
		Low	kW	1.22	1.40	1.64	2.01
		Medium	kW	1.60	1.64	2.00	2.40
		High	kW	1.94	2.06	2.58	3.12
Heating capacity (standard conditions)	Capacity 4-pipe	Fan speed 1	kW	1.47	2.11	2.16	1.91
		Fan speed 2	kW	1.64	2.23	2.36	2.23
		Fan speed 3	kW	1.81	2.37	2.58	2.69
		Fan speed 4	kW	1.96	2.50	2.83	3.09
		Fan speed 5	kW	2.11	2.61	2.94	3.42
		Fan speed 6	kW		-		3.84
		Low	kW	1.47	2.23	2.36	2.69
		Medium	kW	1.81	2.37	2.58	3.09
		High	kW	2.11	2.61	2.94	3.84
Power input	Fan speed 1		kW		0.03		0.04
	Fan speed 2		kW		0.03		0.04
	Fan speed 3		kW		0.03		0.04
	Fan speed 4		kW	0.03		0.04	0.05
	Fan speed 5		kW	0.03		0.04	0.05
	Fan speed 6		kW		-		0.062
	Low		kW		0.03		0.04
	Med.		kW		0.03		0.05
	High		kW	0.033	0.032	0.039	0.062
Dimensions	Unit	Height	mm		200		
		Width	mm		795		995
		Depth	mm		610		
	Packed unit	Height	mm		205		
		Width	mm		925		1,125
		Depth	mm		745		
Weight	Unit		kg	18.0	19.0		22.5
	Packed unit		kg	21	22		26
Casing	Colour				Metal		
	Material				Galvanised sheet metal		
Heat exchanger	Length		mm		490		690
Heat exchanger	Rows	Quantity		2	3		
	Row step	Quantity			6		4
	Fin	Type			ML fin (Multi louver)		
	Tube material				Seamless copper		
	Tube type				ø7 Smooth tube		
	Tube thickness		mm		0.32		
Air filter	Type				Plastic Frame / PP Filter Net (G1)		
	Quantity		pc		2		3

2 Specifications

1 - 1 FWE-DAFN5V3-L

Technical Specifications				FWE03DAFN5V3-L	FWE04DAFN5V3-L	FWE05DAFN5V3-L	FWE06DAFN5V3-L
Fan	Type			Sirocco fan			
	Quantity			2			3
	Air flow rate	Fan speed 1	m^3/h	235	227	243	290
		Fan speed 2	m^3/h	280	263	304	355
		Fan speed 3	m^3/h	326	306	374	446
		Fan speed 4	m^3/h	365	350	453	527
		Fan speed 5	m^3/h	407	385	488	593
		Fan speed 6	m^3/h	-			677
		Low	m^3/h	235	263	304	446
		Medium	m^3/h	326	306	374	527
		High	m^3/h	407	385	488	677
	Available static pressure	Fan speed 1	Pa	27		25	
		Fan speed 2	Pa	34	33	32	
		Fan speed 3	Pa	41		40	41
		Fan speed 4	Pa	47	48	50	48
		Fan speed 5	Pa	55	57	55	
		Fan speed 6	Pa	-			60
		Low	Pa	27	33	32	41
		Medium	Pa	41		40	48
		High	Pa	55	57	55	60
Fan motor	Model			YF110-10-4S3		YF110-12-4S35	YF110-15-4S22
	Type			AC Motor			
	Index of Protection			20			
	Insulation grade			B			
	Poles			4			
Insulation material				Class 0 (NBR Foam, Melamine Foam)			
Total sound power level	Fan speed 1		dBA		33.0		30.0
	Fan speed 2		dBA	35.0	34.0	37.0	34.0
	Fan speed 3		dBA	39.0	38.0	41.0	39.0
	Fan speed 4		dBA	42.0		46.0	44.0
	Fan speed 5		dBA	45.0	44.0	50.0	46.0
	Fan speed 6		dBA	-			50.0
	Low		dBA	33.0	34.0	37.0	39.0
	Medium		dBA	39.0	38.0	41.0	44.0
	High		dBA	45.0	44.0	50.0	
Sound pressure level	Fan speed 1		dBA	21.0	22.0		20.0
	Fan speed 2		dBA	25.0	23.0	27.0	24.0
	Fan speed 3		dBA	28.0	27.0	31.0	29.0
	Fan speed 4		dBA	31.0		36.0	34.0
	Fan speed 5		dBA	35.0	34.0	40.0	36.0
	Fan speed 6		dBA	-			40.0
	Low		dBA	21.0	23.0	27.0	29.0
Sound pressure level	Medium		dBA	28.0	27.0	31.0	34.0
	High		dBA	35.0	34.0	40.0	

2 Specifications

1 - 1 FWE-DAFN5V3-L

Technical Specifications					FWE03DAFN5V3-L	FWE04DAFN5V3-L	FWE05DAFN5V3-L	FWE06DAFN5V3-L
Water flow	Cooling	Fan speed 1		l/h	210	209	228	213
		Fan speed 2		l/h	243	241	282	268
		Fan speed 3		l/h	275	282	343	345
		Fan speed 4		l/h	303	321	413	412
		Fan speed 5		l/h	334	354	443	468
		Fan speed 6		l/h		-		536
		Low		l/h	210	241	282	345
		Medium		l/h	275	282	343	412
		High		l/h	334	354	443	536
	Heating	Fan speed 1		l/h	126	182	186	164
		Fan speed 2		l/h	141	192	203	192
		Fan speed 3		l/h	156	203	222	231
		Fan speed 4		l/h	168	215	243	266
		Fan speed 5		l/h	182	225	253	294
		Fan speed 6		l/h		-		330
		High		l/h	182	225	253	330
		Low		l/h	126	192	203	231
		Medium		l/h	156	203	222	266
	Water pressure drop	Cooling	Fan speed 1	kPa	6	4		2
			Fan speed 2	kPa	8	5	6	3
			Fan speed 3	kPa	9	7	8	4
			Fan speed 4	kPa	11	8	12	5
			Fan speed 5	kPa	13	10	14	7
			Fan speed 6	kPa		-		9
			Low	kPa	6	5	6	4
			Medium	kPa	9	7	8	5
			High	kPa	13	10	14	9
		Heating	Fan speed 1	kPa	12	7		3
			Fan speed 2	kPa	14	7	8	4
			Fan speed 3	kPa	17	8	9	6
			Fan speed 4	kPa	20	9	11	8
			Fan speed 5	kPa	23	10	12	10
			Fan speed 6	kPa		-		12
			Low	kPa	12	7	8	6
			Medium	kPa	17	8	9	8
			High	kPa	23	10	12	
Allowed water temperature	Cooling	Min.		°C	5			
		Max.		°C	90.0			
	Heating	Min.		°C	5.00			
		Max.		°C	90.000			
Piping connections	Water	Inlet			3/4"			
		Outlet			3/4"			
	Drain	OD		mm	17.3			

Technical Specifications				FWE07DAFN5V3-L	FWE08DAFN5V3-L	FWE10DAFN5V3-L	FWE11DAFN5V3-L
Cooling capacity (standard conditions)	Latent capacity 4-pipe	High	kW	0.58	0.66	0.86	0.92
		Super high	kW	0.62	0.71	0.94	1.01
	Sensible capacity 4-pipe	Fan speed 1	kW	1.70	1.95	2.11	2.30
		Fan speed 2	kW	1.98	2.27	2.54	2.78
		Fan speed 3	kW	2.12	2.43	2.89	3.10
		Fan speed 4	kW	2.28	2.62	3.44	3.61
		Fan speed 5	kW	2.62	3.00	3.93	4.20
		Fan speed 6	kW	2.81	3.22	4.28	4.59
		Low	kW	1.98	2.27	2.54	2.78
		Medium	kW	2.28	3.00	3.44	3.61
		High	kW	2.81	3.22	4.28	4.59
	Total capacity 4-pipe	Fan speed 1	kW	2.07	3.22	2.57	2.81
		Fan speed 2	kW	2.42	3.57	3.10	3.39
		Fan speed 3	kW	2.58	3.73	3.52	3.78
		Fan speed 4	kW	2.79	3.93	4.19	4.41
		Fan speed 5	kW	3.20	4.34	4.79	5.13
		Fan speed 6	kW	3.42	4.57	5.22	5.60
		Low	kW	2.42	2.77	3.10	3.39
		Medium	kW	2.79	3.66	4.19	4.41
		High	kW	3.42	3.92	5.22	5.60

2 Specifications

1 - 1 FWE-DAFN5V3-L

Technical Specifications				FWE07DAFN5V3-L	FWE08DAFN5V3-L	FWE10DAFN5V3-L	FWE11DAFN5V3-L
Heating capacity (standard conditions)	Capacity 4-pipe	Fan speed 1	kW	3.22		3.39	3.60
		Fan speed 2	kW	3.57		3.87	4.14
		Fan speed 3	kW	3.73		4.26	4.49
		Fan speed 4	kW	3.93		4.87	5.07
		Fan speed 5	kW	4.34		5.43	5.73
		Fan speed 6	kW	4.57		5.83	6.18
		Low	kW	3.57		3.87	4.14
		Medium	kW	3.93	4.34	4.87	5.07
		High	kW	4.57		5.83	6.18
Power input	Fan speed 1		kW	0.03			
	Fan speed 2		kW	0.04			
	Fan speed 3		kW	0.04		0.05	
	Fan speed 4		kW	0.05		0.06	
	Fan speed 5		kW	0.06		0.08	0.09
	Fan speed 6		kW	0.067		0.104	0.110
	Low		kW	0.04			
	Med.		kW	0.05		0.06	
	High		kW	0.067		0.104	0.110
Dimensions	Unit	Height	mm	200			
		Width	mm	1,200			
		Depth	mm	610			
	Packed unit	Height	mm	205			
		Width	mm	1,325			
		Depth	mm	745			
Weight	Unit		kg	26.0			
	Packed unit		kg	30			
Casing	Colour			Metal			
	Material			Galvanised sheet metal			
Heat exchanger	Length		mm	890			
Heat exchanger	Rows	Quantity		3			
	Row step	Quantity		4			
	Fin	Type		ML fin (Multi louver)			
	Tube material			Seamless copper			
	Tube type			ø7 Smooth tube			
	Tube thickness		mm	0.32			
Air filter	Type			Plastic Frame / PP Filter Net (G1)			
	Quantity		pc	3			
Fan	Type			Sirocco fan			
	Quantity			4			
	Air flow rate	Fan speed 1	m^3/h	397		436	489
		Fan speed 2	m^3/h	481		555	619
		Fan speed 3	m^3/h	521		648	705
		Fan speed 4	m^3/h	570		798	846
		Fan speed 5	m^3/h	669		934	1,008
		Fan speed 6	m^3/h	725		1,032	1,116
		Low	m^3/h	481		555	619
		Medium	m^3/h	570	669	798	846
		High	m^3/h	725		1,032	1,116
	Available static pressure	Fan speed 1	Pa	28		22	25
		Fan speed 2	Pa	34		32	34
		Fan speed 3	Pa	40			41
		Fan speed 4	Pa	46		49	
		Fan speed 5	Pa	55		59	58
		Fan speed 6	Pa	60		63	65
		Low	Pa	34		32	34
		Medium	Pa	46	55	49	
		High	Pa	60		63	65
Fan motor	Model			YF110-18-4S44		YF110-52-4S40	YF110-56-4S14
	Type			AC Motor			
	Index of Protection			20			
	Insulation grade			B			
	Poles			4			
Insulation material				Class 0 (NBR Foam, Melamine Foam)			
Total sound power level	Fan speed 1		dBA	31.0		38.0	40.0
	Fan speed 2		dBA	34.0		43.0	44.0
	Fan speed 3		dBA	38.0		47.0	
	Fan speed 4		dBA	42.0		51.0	52.0
	Fan speed 5		dBA	46.0		54.0	56.0
	Fan speed 6		dBA	50.0		57.0	59.0
	Low		dBA	34.0		43.0	44.0
	Medium		dBA	42.0	46.0	51.0	52.0
	High		dBA	50.0		57.0	59.0

2 Specifications

1 - 1 FWE-DAFN5V3-L

Technical Specifications					FWE07DAFN5V3-L	FWE08DAFN5V3-L	FWE10DAFN5V3-L	FWE11DAFN5V3-L
Sound pressure level	Fan speed 1			dBA	21.0		27.0	29.0
	Fan speed 2			dBA	24.0		33.0	34.0
	Fan speed 3			dBA	27.0		37.0	
	Fan speed 4			dBA	32.0		41.0	42.0
	Fan speed 5			dBA	36.0		44.0	46.0
	Fan speed 6			dBA	40.0		47.0	49.0
	Low			dBA	24.0		33.0	34.0
Sound pressure level	Medium			dBA	32.0	36.0	41.0	42.0
	High			dBA	40.0		47.0	49.0
Water flow	Cooling	Fan speed 1		l/h	354	409	442	483
		Fan speed 2		l/h	415	477	534	583
		Fan speed 3		l/h	444	509	605	650
		Fan speed 4		l/h	479	549	720	757
		Fan speed 5		l/h	551	630	824	881
		Fan speed 6		l/h	589	674	897	962
		Low		l/h	415	477	534	583
		Medium		l/h	479	630	720	757
		High		l/h	589	674	897	962
	Heating	Fan speed 1		l/h	277		291	310
		Fan speed 2		l/h	307		333	356
		Fan speed 3		l/h	321		366	386
		Fan speed 4		l/h	338		419	436
		Fan speed 5		l/h	374		467	493
		Fan speed 6		l/h	393		502	531
		High		l/h	393		502	531
		Low		l/h	307		333	356
		Medium		l/h	338	374	419	436
	Water pressure drop	Cooling	Fan speed 1	kPa	4	9	8	9
			Fan speed 2	kPa	6	11		13
			Fan speed 3	kPa	7	12	14	16
			Fan speed 4	kPa	8	13	19	21
			Fan speed 5	kPa	12	17	25	28
			Fan speed 6	kPa	14	19	29	33
			Low	kPa	6	11		13
			Medium	kPa	8	17	19	21
			High	kPa	14	19	29	33
		Heating	Fan speed 1	kPa	5		6	7
			Fan speed 2	kPa	6		7	8
			Fan speed 3	kPa	7		8	9
			Fan speed 4	kPa	8		10	11
			Fan speed 5	kPa	9		12	14
			Fan speed 6	kPa	10		14	15
			Low	kPa	6		7	8
			Medium	kPa	8	9	10	11
			High	kPa	10		14	15
Allowed water temperature	Cooling	Min.		°C	5			
		Max.		°C	90.0			
	Heating	Min.		°C	5.00			
		Max.		°C	90.000			
Piping connections	Water	Inlet			3/4"			
		Outlet			3/4"			
	Drain	OD		mm	17.3			

Standard accessories: Installation manual; Quantity: 1;

Electrical Specifications			FWE03DAFN5V3-L	FWE04DAFN5V3-L	FWE05DAFN5V3-L	FWE06DAFN5V3-L
Power supply	Type		230 / 1 / 50			
	Phase		1~			
	Frequency	Hz	50			
	Voltage	V	230			

Electrical Specifications			FWE07DAFN5V3-L	FWE08DAFN5V3-L	FWE10DAFN5V3-L	FWE11DAFN5V3-L
Power supply	Type		230 / 1 / 50			
	Phase		1~			
	Frequency	Hz	50			
	Voltage	V	230			

Inlet/outlet water temperature 7/12 °C; inlet air temperature 27°C DB 19°C WB |
Heating: indoor temp. 20°CDB, 15°CWB; entering water temp. 45°C, water temperature drop 5K. |
Heating: indoor temp. 20°CDB, 15°CWB; entering water temp. 65°C, water temperature drop 10K.

3 Electrical data

3 - 1 Electrical Data

FWE-DAFN5V3(L-R-S-T)
FWE-DATN5V3(L-R-S-T)

UNITS	POWER SUPPLY						INPUT(W)
MODEL	Hz	VOLTAGE RANGE (V)	VOLTAGE LIMITS(V)	MCA	MFA	FLA	FAN ONLY
FWE03DAFN5V3-L/R/S/T	50	230	MAX. 253 MIN. 207	0,16	16	0,13	31
FWE03DATN5V3-L/R/S/T	50	230	MAX. 253 MIN. 207	0,16	16	0,13	
FWE04DAFN5V3-L/R/S/T	50	230	MAX. 253 MIN. 207	0,16	16	0,13	32
FWE04DATN5V3-L/R/S/T	50	230	MAX. 253 MIN. 207	0,16	16	0,13	
FWE05DAFN5V3-L/R/S/T	50	230	MAX. 253 MIN. 207	0,19	16	0,13	39
FWE05DATN5V3-L/R/S/T	50	230	MAX. 253 MIN. 207	0,19	16	0,13	
FWE06DAFN5V3-L/R/S/T	50	230	MAX. 253 MIN. 207	0,33	16	0,13	62
FWE06DATN5V3-L/R/S/T	50	230	MAX. 253 MIN. 207	0,33	16	0,13	
FWE07DAFN5V3-L/R/S/T	50	230	MAX. 253 MIN. 207	0,35	16	0,13	65
FWE07DATN5V3-L/R/S/T	50	230	MAX. 253 MIN. 207	0,35	16	0,13	
FWE08DAFN5V3-L/R/S/T	50	230	MAX. 253 MIN. 207	0,44	16	0,13	67
FWE08DATN5V3-L/R/S/T	50	230	MAX. 253 MIN. 207	0,44	16	0,13	
FWE10DAFN5V3-L/R/S/T	50	230	MAX. 253 MIN. 207	0,54	16	0,13	104
FWE10DATN5V3-L/R/S/T	50	230	MAX. 253 MIN. 207	0,54	16	0,13	
FWE11DAFN5V3-L/R/S/T	50	230	MAX. 253 MIN. 207	0,58	16	0,13	110
FWE11DATN5V3-L/R/S/T	50	230	MAX. 253 MIN. 207	0,58	16	0,13	

Symbols:

MCA : Min. Circuit Amps (A)
MFA : Max. Fuse Amps (See note 5)
kW : Fan Motor Rated Output (kW)
FLA : Full Load Amps (A)
ESP : External Static Pressure

Notes:

1. Voltage limits:
   Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below/above listed range limits.
2. Max. allowable voltage unbalance between phases 2%.
3. MCA = 1,25 x FLA;
   (Next lower standard fuse rating min. 16A)
   MFA <= 4 x FLA;
4. Select wire size based on the MCA.
5. Input power measured from rated conditions which has 230 V.

3D123458A

4 Capacity tables

4 - 1 Cooling Capacity Tables

FWE-DAFN5V3(L-R-S-T)

COOLING 4 PIPE @ 0 ESP																	
Air Temperature		DB:25°C - WB:18°C - RH %51															
Water Temperature (Entering °C - Leaving °C)		ΔT=5								ΔT=6							
		7-12				10-15				7-13				10-16			
Model / Fan Speed		Pc	Sc	Wf	Dp	Pc	Sc	Wf	Dp	Pc	Sc	Wf	Dp	Pc	Sc	Wf	Dp
		kW	kW	l/h	kPa	kW	kW	l/h	kPa	kW	kW	l/h	kPa	kW	kW	l/h	kPa
FWE03DF	1 (L)	1.00	0.90	173	4.4	0.73	0.73	126	2.7	1.07	0.95	153	3.7	0.77	0.77	110	2.2
	2	1.16	1.05	200	5.6	0.85	0.85	146	3.4	1.23	1.10	177	4.6	0.89	0.89	127	2.8
	3 (M)	1.32	1.19	227	6.9	0.96	0.96	166	4.1	1.40	1.25	201	5.6	1.01	1.01	145	3.4
	4	1.45	1.31	250	8.1	1.06	1.06	183	4.8	1.54	1.37	221	6.6	1.11	1.11	160	3.95
	5 (H)	1.60	1.44	276	9.5	1.17	1.17	201	5.6	1.70	1.51	244	7.6	1.23	1.23	176	4.59
FWE04DF	1	1.00	0.90	172	2.7	0.73	0.73	125	1.5	1.06	0.94	152	2.2	0.76	0.76	109	1.2
	2 (L)	1.16	1.04	199	3.5	0.84	0.84	145	2.0	1.23	1.09	176	2.8	0.88	0.88	127	1.6
	3 (M)	1.35	1.21	232	4.6	0.98	0.98	169	2.6	1.43	1.27	205	3.7	1.03	1.03	148	2.1
	4	1.54	1.39	265	5.9	1.12	1.12	194	3.3	1.64	1.46	235	4.7	1.18	1.18	169	2.6
	5 (H)	1.70	1.53	292	7.1	1.24	1.24	213	4.0	1.80	1.60	258	5.6	1.30	1.30	187	3.1
FWE05DF	1	1.09	0.98	188	2.3	0.79	0.79	137	1.1	1.16	1.03	166	1.7	0.84	0.84	120	0.8
	2 (L)	1.35	1.22	233	3.6	0.98	0.98	170	1.8	1.44	1.28	206	2.8	1.03	1.03	148	1.3
	3 (M)	1.65	1.48	283	5.6	1.20	1.20	207	2.8	1.75	1.56	251	4.3	1.26	1.26	181	2.1
	4	1.98	1.78	341	8.3	1.45	1.45	249	4.2	2.10	1.87	302	6.4	1.52	1.52	218	3.1
	5 (H)	2.13	1.92	366	9.6	1.55	1.55	267	4.9	2.26	2.05	324	7.4	1.63	1.63	234	3.7
FWE06DF	1	1.02	0.91	175	0.5	0.74	0.74	127	0.1	1.08	0.96	155	0.3	0.77	0.77	111	0.1
	2	1.28	1.15	221	1.0	0.93	0.93	160	0.4	1.36	1.21	195	0.7	0.98	0.98	140	0.2
	3 (L)	1.65	1.49	284	2.0	1.20	1.20	207	0.9	1.75	1.56	252	1.5	1.26	1.26	181	0.6
	4 (M)	1.98	1.78	340	3.1	1.44	1.44	248	1.4	2.10	1.87	301	2.3	1.51	1.51	217	1.0
	5	2.25	2.02	387	4.2	1.64	1.64	282	2.0	2.38	2.12	342	3.1	1.72	1.72	247	1.4
	6 (H)	2.57	2.32	443	5.7	1.87	1.87	322	2.7	2.73	2.43	392	4.3	1.97	1.97	282	2.0
FWE07DF	1	1.70	1.53	293	2.4	1.24	1.24	213	0.9	1.80	1.61	259	1.7	1.30	1.30	187	0.6
	2 (L)	1.99	1.79	343	3.6	1.45	1.45	250	1.5	2.11	1.88	303	2.6	1.53	1.53	219	1.0
	3	2.13	1.92	367	4.3	1.55	1.55	267	1.8	2.26	2.01	324	3.1	1.63	1.63	234	1.2
	4 (M)	2.30	2.07	396	5.2	1.68	1.68	289	2.3	2.44	2.17	350	3.8	1.76	1.76	253	1.6
	5	2.65	2.38	455	7.4	1.93	1.93	332	3.4	2.81	2.50	403	5.5	2.03	2.03	291	2.3
	6 (H)	2.83	2.54	486	8.6	2.06	2.06	354	4.0	3.00	2.67	430	6.4	2.16	2.16	310	2.8
FWE08DF	1	1.96	1.77	338	6.5	1.43	1.43	247	4.2	2.08	1.85	299	5.5	1.51	1.51	216	3.5
	2 (L)	2.29	2.06	394	8.2	1.67	1.67	288	5.2	2.43	2.16	348	6.8	1.76	1.76	252	4.3
	3	2.45	2.20	421	9.0	1.79	1.79	307	5.7	2.60	2.31	372	7.5	1.88	1.88	269	4.7
	4	2.64	2.37	454	10.1	1.92	1.92	331	6.3	2.80	2.49	401	8.4	2.02	2.02	290	5.3
	5 (M)	3.02	2.72	520	12.4	2.21	2.21	380	7.7	3.21	2.86	460	10.3	2.32	2.32	332	6.4
	6 (H)	3.24	2.91	557	13.8	2.36	2.36	406	8.5	3.44	3.06	493	11.4	2.48	2.48	356	7.0
FWE10DF	1	2.12	1.91	365	5.6	1.55	1.55	267	3.2	2.25	2.00	323	4.5	1.63	1.63	234	2.6
	2 (L)	2.56	2.31	441	7.8	1.87	1.87	366	4.5	2.72	2.42	390	6.3	1.97	1.97	282	3.6
	3	2.91	2.62	500	9.8	2.12	2.12	497	5.6	3.09	2.75	442	7.9	2.23	2.23	320	4.4
	4 (M)	3.46	3.12	596	13.5	2.53	2.53	323	7.6	3.67	3.27	527	10.8	2.65	2.65	381	6.0
	5	3.96	3.56	681	17.3	2.89	2.89	435	9.7	4.20	3.74	602	13.8	3.03	3.03	435	7.6
	6 (H)	4.31	3.88	741	20.3	3.14	3.14	540	11.3	4.57	4.07	656	16.1	3.30	3.30	473	8.9
FWE11DF	1	2.32	2.09	400	6.6	1.70	1.70	292	3.8	2.46	2.19	353	5.3	1.78	1.78	256	3.0
	2 (L)	2.80	2.52	483	9.2	2.05	2.05	353	5.3	2.98	2.65	427	7.4	2.15	2.15	309	4.2
	3	3.12	2.81	538	11.2	2.28	2.28	393	6.4	3.32	2.95	475	9.0	2.40	2.40	344	5.0
	4 (M)	3.64	3.28	626	14.8	2.66	2.66	457	8.3	3.86	3.44	554	11.8	2.79	2.79	400	6.6
	5	4.23	3.81	728	19.6	3.09	3.09	531	11.0	4.49	4.00	644	15.6	3.24	3.24	465	8.6
	6 (H)	4.62	4.16	795	23.1	3.37	3.37	579	12.8	4.91	4.37	703	18.4	3.54	3.54	507	10.1

3D122020

4 Capacity tables

4 - 1 Cooling Capacity Tables

FWE-DAFN5V3(L-R-S-T)

4

COOLING 4 PIPE @ 0 ESP																	
Air Temperature		DB:26°C - WB:18.5°C - RH %49															
Water Temperature (Entering °C - Leaving °C)		ΔT=5								ΔT=6							
		7-12				10-15				7-13				10-16			
Model / Fan Speed		Pc	Sc	Wf	Dp	Pc	Sc	Wf	Dp	Pc	Sc	Wf	Dp	Pc	Sc	Wf	Dp
		kW	kW	l/h	kPa	kW	kW	l/h	kPa	kW	kW	l/h	kPa	kW	kW	l/h	kPa
FWE03DF	1 (L)	1.12	0.96	192	5.2	0.79	0.79	136	3.1	0.95	0.90	137	3.1	0.70	0.70	101	2.0
	2	1.29	1.11	222	6.6	0.92	0.92	158	3.8	1.10	1.04	158	3.9	0.82	0.82	117	2.5
	3 (M)	1.47	1.26	253	8.2	1.04	1.04	180	4.7	1.25	1.18	180	4.7	0.93	0.93	133	3.0
	4	1.62	1.39	278	9.6	1.15	1.15	198	5.5	1.38	1.30	198	5.5	1.02	1.02	147	3.4
	5 (H)	1.78	1.53	306	11.3	1.27	1.27	218	6.4	1.52	1.43	218	6.4	1.13	1.13	162	4.0
FWE04DF	1	1.11	0.95	191	3.3	0.79	0.79	136	1.8	0.95	0.89	136	1.8	0.70	0.70	100	1.1
	2 (L)	1.28	1.10	221	4.2	0.91	0.91	157	2.3	1.10	1.03	158	2.3	0.81	0.81	117	1.4
	3 (M)	1.50	1.29	258	5.6	1.07	1.07	184	3.0	1.28	1.21	184	3.0	0.95	0.95	136	1.8
	4	1.71	1.47	295	7.2	1.22	1.22	210	3.9	1.47	1.38	210	3.9	1.09	1.09	156	2.3
	5 (H)	1.89	1.62	325	8.6	1.34	1.34	231	4.6	1.61	1.52	231	4.6	1.20	1.20	172	2.7
FWE05DF	1	1.21	1.04	209	2.9	0.86	0.86	149	1.3	1.04	0.98	149	1.3	0.77	0.77	110	0.6
	2 (L)	1.50	1.29	259	4.6	1.07	1.07	183	2.1	1.29	1.21	184	2.2	0.95	0.95	136	1.1
	3 (M)	1.83	1.57	315	7.0	1.30	1.30	224	3.3	1.57	1.47	225	3.3	1.16	1.16	166	1.7
	4	2.20	1.89	379	10.3	1.57	1.57	270	5.0	1.88	1.77	270	5.0	1.40	1.40	200	2.6
	5 (H)	2.36	2.03	407	12.0	1.68	1.68	290	5.8	2.02	1.90	290	5.9	1.50	1.50	215	3.0
FWE06DF	1	1.13	0.97	195	0.7	0.80	0.80	138	0.2	0.97	0.91	139	0.26	0.71	0.71	102	0.1
	2	1.43	1.23	245	1.4	1.01	1.01	174	0.5	1.22	1.14	175	0.55	0.90	0.90	129	0.2
	3 (L)	1.84	1.58	316	2.6	1.30	1.30	225	1.1	1.57	1.48	225	1.1	1.16	1.16	267	0.4
	4 (M)	2.20	1.89	378	4.0	1.56	1.56	269	1.7	1.88	1.77	270	1.7	1.39	1.39	200	0.8
	5	2.50	2.15	429	5.3	1.78	1.78	306	2.4	2.14	2.01	306	2.4	1.58	1.58	227	1.1
	6 (H)	2.86	2.46	492	7.3	2.03	2.03	350	3.3	2.45	2.30	351	3.3	1.81	1.81	259	1.6
FWE07DF	1	1.89	1.62	325	3.2	1.34	1.34	231	1.2	1.62	1.52	232	1.2	1.20	1.20	171	0.4
	2 (L)	2.21	1.90	381	4.8	1.57	1.57	271	1.9	1.89	1.78	272	1.9	1.40	1.40	201	0.7
	3	2.37	2.03	407	5.6	1.68	1.68	290	2.3	2.03	1.90	290	2.3	1.50	1.50	215	0.9
	4 (M)	2.55	2.20	439	6.8	1.82	1.82	313	2.9	2.19	2.05	313	2.9	1.62	1.62	232	1.2
	5	2.94	2.53	506	9.5	2.09	2.09	360	4.1	2.52	2.37	361	4.2	1.87	1.87	267	1.8
	6 (H)	3.14	2.70	540	11.1	2.23	2.23	384	4.9	2.69	2.53	385	4.9	1.99	1.99	285	2.2
FWE08DF	1	2.18	1.87	375	7.6	1.55	1.55	267	4.7	1.87	1.75	268	4.7	1.39	1.39	199	3.2
	2 (L)	2.54	2.19	438	9.5	1.81	1.81	312	5.8	2.18	2.05	312	5.8	1.62	1.62	232	3.9
	3	2.72	2.34	467	10.5	1.94	1.94	333	6.4	2.33	2.19	334	6.4	1.73	1.73	247	4.2
	4	2.93	2.52	438	11.8	2.09	2.09	359	7.1	2.51	2.36	359	7.1	1.86	1.86	267	4.7
	5 (M)	3.36	2.89	578	14.6	2.39	2.39	412	8.7	2.88	2.70	412	8.7	2.13	2.13	306	5.7
	6 (H)	3.60	3.09	619	16.3	2.56	2.56	441	9.6	3.08	2.89	441	9.6	2.28	2.28	327	6.2
FWE10DF	1	2.36	2.03	406	6.7	1.68	1.68	290	3.7	2.02	1.90	290	3.77	1.50	1.50	215	2.2
	2 (L)	2.85	2.45	490	9.5	2.03	2.03	350	5.2	2.44	2.29	350	5.22	1.81	1.81	260	3.1
	3	3.23	2.78	556	11.9	2.30	2.30	396	6.5	2.77	2.60	396	6.5	2.05	2.05	294	3.8
	4 (M)	3.84	3.31	661	16.4	2.74	2.74	471	8.8	3.29	3.09	472	8.8	2.44	2.44	350	5.2
	5	4.40	3.78	756	21.0	3.13	3.13	539	11.2	3.76	3.54	539	11.3	2.79	2.79	400	6.6
	6 (H)	4.79	4.12	823	14.7	3.40	3.40	586	13.1	4.09	3.85	587	13.2	3.03	3.03	434	7.6
FWE11DF	1	2.58	2.22	444	7.9	1.84	1.84	317	4.4	2.21	2.08	317	4.4	1.64	1.64	235	2.6
	2 (L)	3.11	2.68	536	11.1	2.22	2.22	382	6.1	2.67	2.51	382	6.1	1.98	1.98	284	3.6
	3	3.47	2.98	597	13.6	2.47	2.47	426	7.3	2.97	2.79	426	7.3	2.21	2.21	316	4.3
	4 (M)	4.04	3.48	695	18.0	2.88	2.88	496	9.7	3.46	3.25	496	9.7	2.57	2.57	368	5.7
	5	4.70	4.04	809	23.9	3.35	3.35	576	12.7	4.03	3.78	577	12.8	2.98	2.98	428	7.4
	6 (H)	5.13	4.41	883	28.1	3.65	3.65	628	14.9	4.39	4.13	630	15.0	3.25	3.25	466	8.6

3D122018

4 Capacity tables

4 - 1 Cooling Capacity Tables

FWE-DAFN5V3(L-R-S-T)

COOLING 4 PIPE @ 0 ESP																	
Air Temperature		DB:27°C - WB:19°C - RH %47															
Water Temperature (Entering °C - Leaving °C)		ΔT=5								ΔT=6							
		7-12				10-15				7-13				10-16			
Model / Fan Speed		Pc	Sc	Wf	Dp	Pc	Sc	Wf	Dp	Pc	Sc	Wf	Dp	Pc	Sc	Wf	Dp
		kW	kW	l/h	kPa	kW	kW	l/h	kPa	kW	kW	l/h	kPa	kW	kW	l/h	kPa
FWE03DF	1 (L)	1.22	1.00	210	6.0	0.84	0.81	145	3,4	1.07	0.95	153	3.7	0.77	0.77	111	2.2
	2	1.41	1.15	243	7.6	0.97	0.94	168	4,2	1.23	1.10	177	4.6	0.89	0.89	128	2.8
	3 (M)	1.60	1.31	275	9.4	1.11	1.06	191	5,2	1.40	1.25	202	5.6	1.01	1.01	145	3.4
	4	1.76	1.44	303	11.1	1.22	1.17	211	6,1	1.54	1.37	222	6.6	1.11	1.11	160	3.9
	5 (H)	1.94	1.59	334	13.1	1.34	1.29	232	7,1	1.70	1.51	244	7.7	1.23	1.23	176	4.5
FWE04DF	1	1.21	0.99	209	3.8	0.84	0.80	145	2.0	1.06	0.94	152	2.2	0.76	0.76	110	1.2
	2 (L)	1.40	1.15	241	4.9	0.97	0.93	168	2.6	1.23	1.09	177	2.8	0.88	0.88	127	1.6
	3 (M)	1.63	1.34	282	6.6	1.13	1.09	196	3.4	1.43	1.27	206	3.7	1.03	1.03	149	2.1
	4	1.86	1.53	321	8.4	1.29	1.24	223	4.3	1.64	1.46	235	4.7	1.18	1.18	170	2.6
	5 (H)	2.05	1.68	354	10.0	1.43	1.37	246	5.1	1.80	1.60	259	5.6	1.30	1.30	187	3.1
FWE05DF	1	1.32	1.08	228	3.5	0.92	0.88	158	1,5	1.16	1.03	167	1.7	0.84	0.84	120	0.8
	2 (L)	1.64	1.34	282	5.5	1.09	1.09	196	2,5	1.44	1.28	206	2.8	1.03	1.03	149	1.3
	3 (M)	1.99	1.63	343	8.4	1.33	1.33	239	3,8	1.75	1.56	251	4.3	1.26	1.26	181	2.1
	4	2.40	1.96	413	12.3	1.60	1.60	287	5,7	2.1	1.87	302	6.4	1.52	1.52	218	3.1
	5 (H)	2.57	2.11	443	14.3	1.72	1.72	308	6,6	2.26	2.01	324	7.4	1.63	1.63	234	3.7
FWE06DF	1	1.23	1.01	213	0.9	0.85	0.82	147	0.3	1.08	0.96	156	0.3	0.77	0.77	112	0.1
	2	1.55	1.27	268	1.7	1.07	1.03	185	0.6	1.36	1.21	196	0.7	0.98	0.98	141	0.2
	3 (L)	2.00	1.64	343	3.2	1.39	1.33	239	1.3	1.75	1.56	252	1.5	1.26	1.26	182	0.6
	4 (M)	2.39	1.96	412	4.9	1.66	1.59	286	2.0	2.10	1.87	302	2.3	1.51	1.51	218	1.0
	5	2.72	2.23	468	6.5	1.89	1.81	325	2.8	2.38	2.12	342	3.1	1.72	1.72	247	1.4
	6 (H)	3.11	2.55	536	8.8	2.16	2.07	372	3.8	2.73	2.43	392	4.3	1.97	1.97	283	2.0
FWE07DF	1	2.06	1.69	354	4.0	1.43	1.37	246	1.4	1.80	1.61	259	1.7	1.30	1.30	187	0.6
	2 (L)	2.41	1.97	415	5.9	1.67	1.61	288	2.3	2.11	1.88	304	2.6	1.53	1.53	219	1.0
	3	2.58	2.11	444	6.9	1.79	1.72	308	2.7	2.26	2.01	325	3.1	1.63	1.63	234	1.2
	4 (M)	2.78	2.28	479	8.3	1.93	1.85	333	3.4	2.44	2.17	350	3.8	1.76	1.76	253	1.6
	5	3.20	2.62	551	11.5	2.22	2.13	383	4.8	2.81	2.50	403	5.5	2.03	2.03	291	2.3
	6 (H)	3.42	2.80	589	13.5	2.37	2.28	409	5.7	3.00	2.67	431	6.4	2.16	2.16	311	2.8
FWE08DF	1	2.37	1.94	409	8.6	1.65	1.58	284	5.1	2.08	1.85	299	5.5	1.51	1.51	216	3.5
	2 (L)	2.77	2.27	477	10.8	1.92	1.85	332	6.3	2.43	2.16	349	6.8	1.76	1.76	252	4.3
	3	2.96	2.42	509	12.0	2.06	1.97	354	7.0	2.60	2.31	373	7.5	1.88	1.88	270	4.7
	4	3.19	2.61	549	13.4	2.22	2.13	382	7.8	2.80	2.49	402	8.4	2.02	2.02	290	5.3
	5 (M)	3.66	3.00	630	16.7	2.54	2.44	438	9.5	3.21	2.86	461	10.3	2.32	2.32	333	6.4
	6 (H)	3.92	3.21	674	18.6	2.72	2.61	468	10.5	3.44	3.06	493	11.4	2.48	2.48	356	7.0
FWE10DF	1	2,56	2,1	442	7.8	1.79	1.71	308	4.1	2.25	2.00	324	4.55	1.63	1.63	234	2.6
	2 (L)	3,1	2,54	534	11.0	2.16	2.07	372	5.8	2.72	2.42	391	6.33	1.97	1.97	283	3.6
	3	3,51	2,88	605	13.9	2.44	2.35	421	7.2	3.09	2.75	443	7.91	2.23	2.23	320	4.4
	4 (M)	4,18	3,43	720	19.2	2.91	2.79	501	9.8	3.67	3.27	527	10.8	2.65	2.65	381	6.0
	5	4,79	3,92	824	24.7	3.32	3.19	573	12.5	4.20	3.74	603	13.8	3.03	3.03	435	7.6
	6 (H)	5,21	4,27	897	29.0	3.47	3.47	623	14.6	4.57	4.07	656	16.1	3.30	3.30	473	8.9
FWE11DF	1	2,81	2,3	483	9.2	1.95	1.88	337	4.8	2.46	2.19	354	5.3	1.78	1.78	256	3.0
	2 (L)	3,39	2,78	583	13.0	2.36	2.26	406	6.7	2.98	2.65	427	7.4	2.15	2.15	309	4.2
	3	3,77	3,09	650	15.8	2.63	2.52	452	8.2	3.32	2.95	476	9.0	2.40	2.40	344	5.0
	4 (M)	4,4	3,61	757	21.1	3.06	2.94	527	10.8	3.86	3.44	554	11.8	2.79	2.79	401	6.6
	5	5,12	4,2	881	28.0	3.56	3.41	612	14.2	4.49	4.00	645	15.6	3.24	3.24	466	8.6
	6 (H)	5,59	4,58	962	33.0	3.88	3.72	668	16.7	4.91	4.37	704	18.4	3.54	3.54	507	10.1

3D122016

4 Capacity tables

4 - 2 Heating Capacity Tables

FWE-DAFN5V3(L-R-S-T)

4

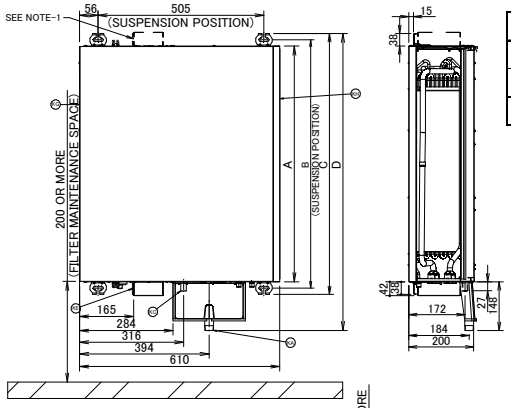
HEATING 4 PIPE @ 0 ESP													
Air Temperature		DB:20°C						DB:22°C					
Water Temperature (Entering °C - Leaving °C)		ΔT=10						ΔT=10					
		65-55			70-60			65-55			70-60		
Model / Fan Speed		Ph	Wf	Dp	Ph	Wf	Dp	Ph	Wf	Dp	Ph	Wf	Dp
		kW	l/h	kPa	kW	l/h	kPa	kW	l/h	kPa	kW	l/h	kPa
FWE03DF	1 (L)	1.40	126	11.7	1.67	144	14.9	1.38	118	10.5	1.60	137	13.7
	2	1.63	140	14.3	1.86	160	18.2	1.53	132	12.7	1.78	153	16.7
	3 (M)	1.80	155	17.2	2.06	177	21.8	1.69	146	15.3	1.97	169	20.1
	4	1.95	168	19.8	2.22	191	25.2	1.83	157	17.6	2.12	183	23.2
	5 (H)	2.11	181	22.8	2.40	206	29.1	1.98	170	20.3	2.30	197	26.8
FWE04DF	1	2.11	181	6.9	2.40	207	8.4	1.98	170	6.2	2.30	197	7.8
	2 (L)	2.22	191	7.4	2.53	218	9.1	2.09	179	6.7	2.42	208	8.5
	3 (M)	2.36	203	8.2	2.69	231	10.1	2.21	190	7.4	2.57	221	9.4
	4	2.50	215	8.9	2.85	245	11.0	2.34	201	8.1	2.72	234	10.2
	5 (H)	2.61	224	9.6	2.97	256	11.8	2.43	210	8.7	2.84	244	11.0
FWE05DF	1	2.16	186	7.1	2.46	212	8.7	2.03	174	6.5	2.35	202	8.1
	2 (L)	2.35	202	8.1	2.68	231	10.0	2.21	190	7.4	2.56	220	9.3
	3 (M)	2.57	221	9.4	2.93	252	11.5	2.41	207	8.5	2.80	241	10.7
	4	2.82	243	10.8	3.22	276	13.4	2.65	228	9.8	3.07	264	12.5
	5 (H)	2.93	252	11.5	3.34	287	14.3	2.75	237	10.4	3.20	275	13.3
FWE06DF	1	1.90	163	3.0	2.17	186	3.9	1.78	153	2.6	2.07	178	3.5
	2	2.23	191	4.1	2.54	218	5.3	2.09	180	3.6	2.43	208	4.9
	3 (L)	2.68	231	6.0	3.06	263	7.8	2.52	216	5.2	2.92	251	7.1
	4 (M)	3.08	265	7.9	3.52	302	10.3	2.89	249	6.9	3.36	289	9.4
	5	3.41	293	9.7	3.89	334	12.6	3.20	275	8.5	3.72	320	11.5
	6 (H)	3.83	329	12.2	4.37	375	15.9	3.59	309	10.7	4.17	359	14.5
FWE07DF	1	3.22	277	5.4	3.67	315	6.7	3.02	260	4.9	3.51	301	6.2
	2 (L)	3.56	306	6.4	4.06	349	7.8	3.34	287	5.8	3.88	334	7.3
	3	3.73	321	6.8	4.25	365	8.4	3.50	301	6.2	4.06	349	7.8
	4 (M)	3.93	338	7.4	4.48	385	9.1	3.69	317	6.7	4.28	368	8.5
	5	4.34	373	8.7	4.95	425	10.7	4.07	350	7.8	4.73	406	9.9
	6 (H)	4.57	393	9.4	5.21	448	11.6	4.29	369	8.5	4.98	428	10.8
FWE08DF	1	3.22	277	5.4	3.67	315	6.7	3.02	260	4.9	3.51	301	6.2
	2 (L)	3.56	306	6.4	4.06	349	7.8	3.34	287	5.8	3.88	334	7.3
	3	3.73	321	6.8	4.25	365	8.4	3.50	301	6.2	4.06	349	7.8
	4	3.93	338	7.4	4.48	385	9.1	3.69	317	6.7	4.28	368	8.5
	5 (M)	4.34	373	8.7	4.95	425	10.7	4.07	350	7.8	4.73	406	9.9
	6 (H)	4.57	393	9.4	5.21	448	11.6	4.29	369	8.5	4.98	428	10.8
FWE10DF	1	3.38	291	5.9	3.85	331	7.2	3.17	273	5.3	3.68	317	6.7
	2 (L)	3.87	333	7.2	4.41	379	8.9	3.63	312	6.6	4.22	362	8.3
	3	4.25	365	8.4	4.85	417	10.4	3.99	343	7.6	4.63	398	9.6
	4 (M)	4.87	418	10.4	5.55	477	12.9	4.57	393	9.4	5.30	456	12.0
	5	5.43	466	12.4	6.18	532	15.4	5.09	438	11.2	5.91	508	14.3
	6 (H)	5.83	501	14.0	6.64	571	17.4	5.47	470	12.6	6.35	546	16.1
FWE11DF	1	3.60	309	6.5	4.10	353	7.9	3.38	290	5.9	7.4	337	7.4
	2 (L)	4.13	355	8.0	4.71	405	9.9	3.88	333	7.3	9.2	387	9.2
	3	4.49	386	9.2	5.11	440	11.3	4.21	362	8.3	10.5	420	10.5
	4 (M)	5.06	435	11.1	5.77	496	13.8	4.75	409	10.0	12.8	474	12.8
	5	5.73	493	13.6	6.53	561	16.9	5.38	462	12.3	15.7	537	15.7
	6 (H)	6.17	531	15.4	7.04	605	19.1	5.79	498	13.8	17.7	578	17.7

3D122207

5 Dimensional drawings

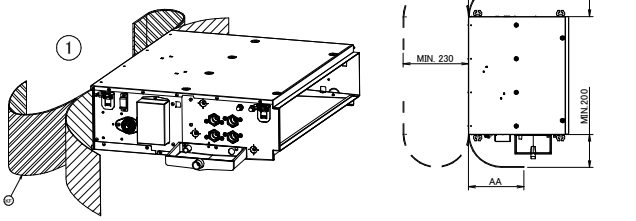
5 - 1 Dimensional Drawings

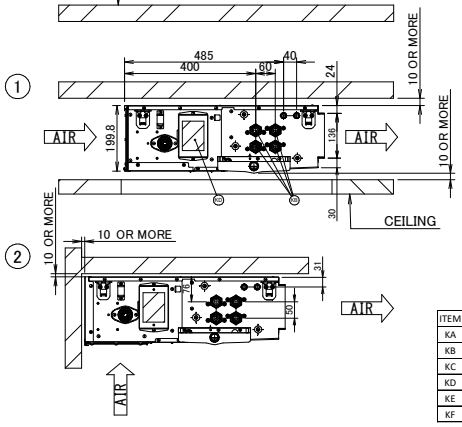
FWE-DAFN5V3(L-R-S-T)
FWE-DATN5V3(L-R-S-T)

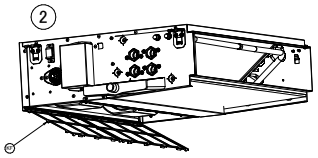


MODEL NAME	AA(MAX.)
FWE03/04/05/DAF/TN5V3L/R/S/T	710
FWE06DAF/TN5V3L/R/S/T	820
FWE07/08/09/10/11DAF/TN5V3L/R/S/T	1020

FILTER MAINTENANCE SPACE







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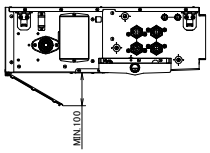


MODEL NAME	A	B	C	D
FWE03/04/05/DAF/TN5V3-L/R/S/T	719	757	795	905
FWE06DAF/TN5V3-L/R/S/T	919	957	995	1105
FWE07/08/10/11DAF/TN5V3-L/R/S/T	1119	1157	1195	1305

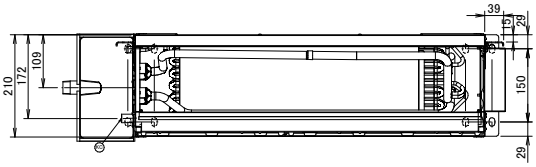
ITEM	NAME	DESCRIPTION
KA	ADDITIONAL DRAIN PAN SOCKET	OD Ø26.4(R3/4")
KB	WATER PIPE CONNECTION BODY	ID Ø26.4(G3/4")
KC	DRAIN PIPE CONNECTION	OD Ø17.3
KD	WIRING DIAGRAM	-
KE	POWER SUPPLY CONNECTION	-
KF	AIR FILTER	-

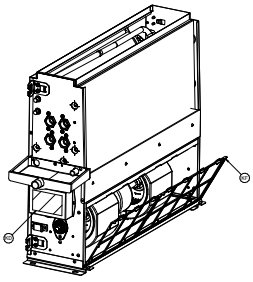
NOTES:

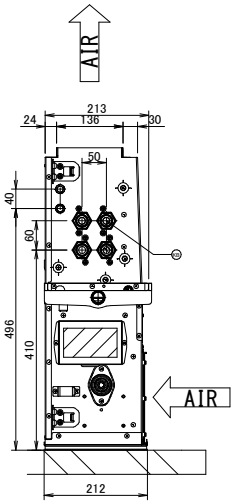
1) POWER SUPPLY CONNECTION SIDE INTERCHANGEABLE IN FIELD.

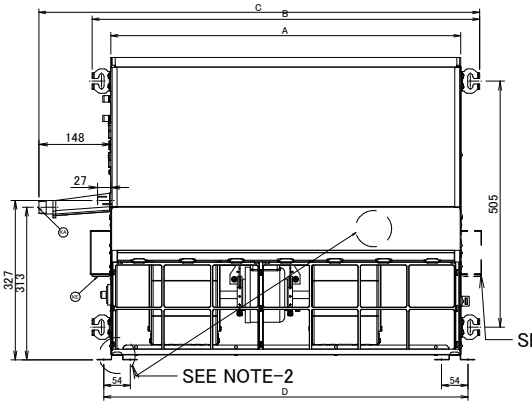
1D125336

FWE-DAFN5V3(L-R-S-T)
FWE-DAFN5V3(L-R-S-T)

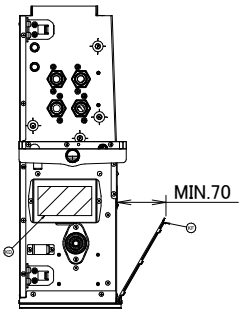








FILTER MAINTENANCE SPACE



MODEL NAME	A	B	C	D
FWE03/04/05/DAF/TN5V3-L/R/S/T	719	795	905	747
FWE06DAF/TN5V3-L/R/S/T	919	995	1105	947
FWE07/08/10/11DAF/TN5V3-L/R/S/T	1119	1195	1305	1147

ITEM	NAME	DESCRIPTION
KA	ADDITIONAL DRAIN PAN SOCKET	OD Ø26.4(R3/4")
KB	WATER PIPE CONNECTION BODY	ID Ø26.4(G3/4")
KC	DRAIN PIPE CONNECTION	OD Ø17.3
KD	WIRING DIAGRAM	-
KE	POWER SUPPLY CONNECTION	-
KF	AIR FILTER	-

NOTES:

1) POWER SUPPLY CONNECTION SIDE INTERCHANGEABLE IN FIELD.
2) OPTION KIT(ESFH01D5) SHALL BE MOUNTING FOR VERTICAL INSTALLATION .

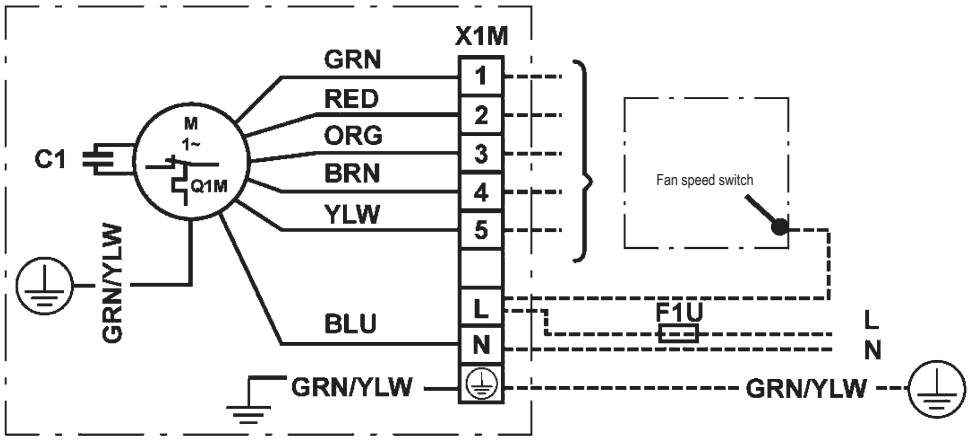
1D125339

6 Wiring diagrams

6 - 1 Wiring Diagrams - Single Phase

FWE03-05DAFN5V3(L-R-S-T)
FWE03-05DATN5V3(L-R-S-T)

Wiring diagram



NOTES

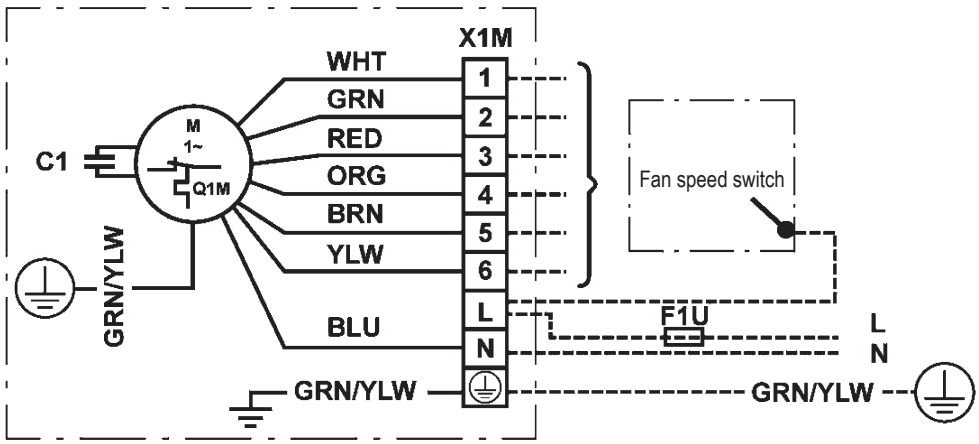
– – – –	Field wiring	L	AC sytem supply	WHT	White
M	Fan motor	N	Neutral	RED	Red
F1U	Fuse	C1	Capacitor	ORG	Orange
X1M	Terminal strip	⏚	Protector earth	BRN	Brown
1	Lowest speed	⏚	Earth	YLW	Yellow
5	Highest speed	Q1M	Self-operating thermal protector	BLU	Blue
				GRN/YLW	Green / Yellow

* For the power requirements, refer to the name plate.

4D121422-1

FWE06-11DAFN5V3(L-R-S-T)
FWE06-11DATN5V3(L-R-S-T)

Wiring diagram



NOTES

– – – –	Field wiring	L	AC sytem supply	WHT	White
M	Fan motor	N	Neutral	GRN	Green
F1U	Fuse	C1	Capacitor	RED	Red
X1M	Terminal strip	⏚	Protector earth	ORG	Orange
1	Lowest speed	⏚	Earth	BRN	Brown
6	Highest speed	Q1M	Self-operating thermal protector	YLW	Yellow
				BLU	Blue
				GRN/YLW	Green / Yellow

* For the power requirements, refer to the name plate.

4D118236-1A

7 Sound data

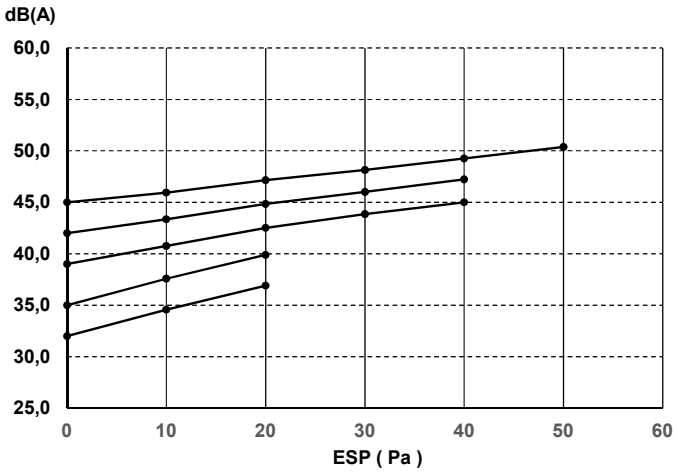
7 - 1 Sound Power Spectrum

FWE03DAFN5V3(L-R-S-T)
FWE03DATN5V3(L-R-S-T)

Sound Power overall (dBA)

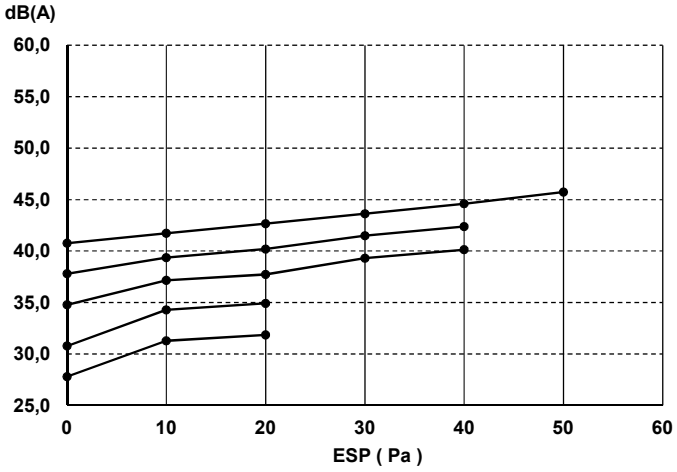
Whole casing

ESP (Pa)	Fan speed 5 H	4	3 M	2	1 L
0	45,0	42,0	39,0	35,0	32,0
10	46,0	43,4	40,8	37,6	34,6
20	47,2	44,8	42,5	39,9	36,9
30	48,1	46,0	43,9		
40	49,3	47,2	45,0		
50	50,4				



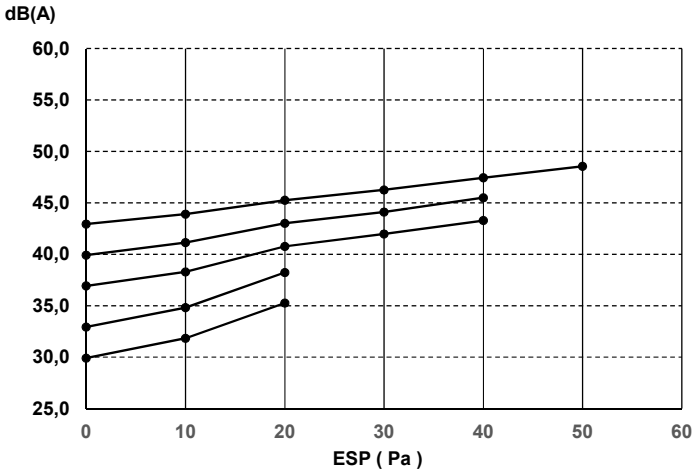
Discharge

ESP (Pa)	Fan speed 5 H	4	3 M	2	1 L
0	40,8	37,8	34,8	30,8	27,8
10	41,7	39,4	37,1	34,3	31,3
20	42,7	40,2	37,7	34,9	31,9
30	43,6	41,5	39,3		
40	44,6	42,4	40,1		
50	45,7				



Inlet + casing

ESP (Pa)	Fan speed 5 H	4	3 M	2	1 L
0	42,9	39,9	36,9	32,9	29,9
10	43,9	41,1	38,3	34,8	31,8
20	45,3	43,0	40,8	38,2	35,3
30	46,3	44,1	42,0		
40	47,4	45,5	43,3		
50	48,6				



3D122198A

7 Sound data

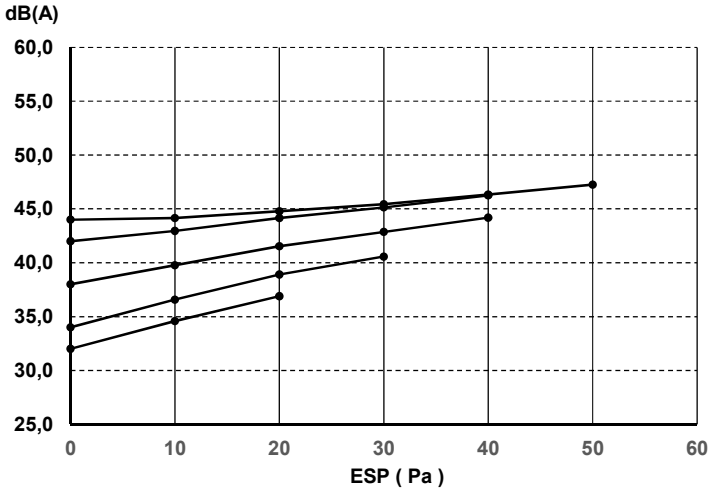
7 - 1 Sound Power Spectrum

FWE04DAFN5V3(L-R-S-T)
FWE04DATN5V3(L-R-S-T)

Sound Power overall (dBA)

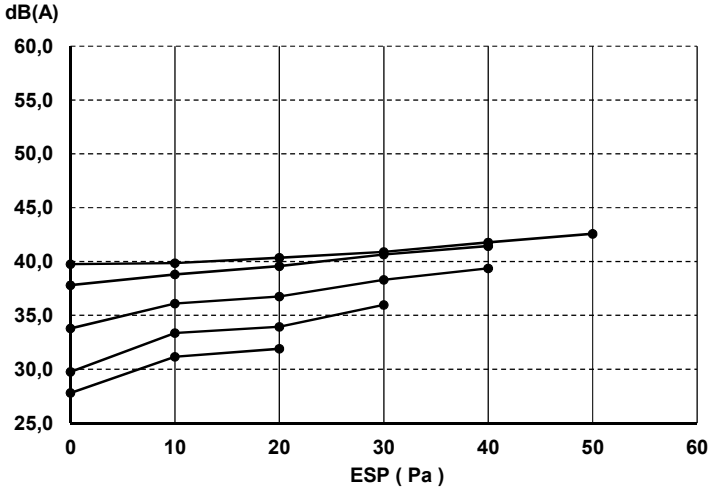
Whole casing

ESP (Pa)	Fan speed 5 H	4	3 M	2 L	1
0	44,0	42,0	38,0	34,0	32,0
10	44,2	43,0	39,8	36,6	34,6
20	44,8	44,2	41,5	38,9	36,9
30	45,4	45,1	42,9	40,6	
40	46,3	46,3	44,2		
50	47,3				



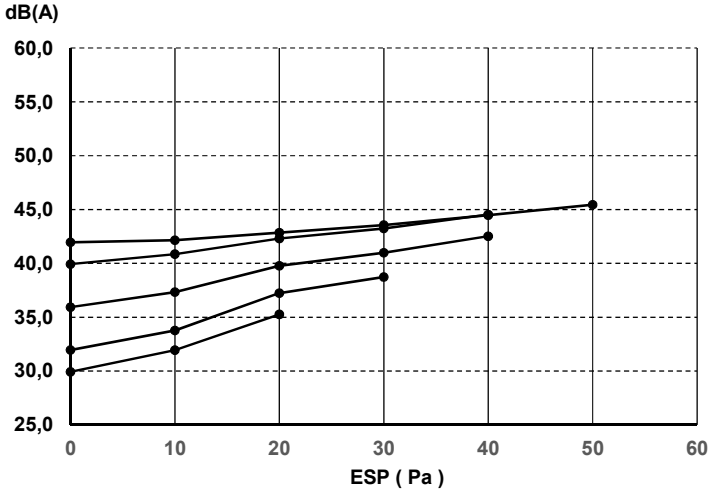
Discharge

ESP (Pa)	Fan speed 5 H	4	3 M	2 L	1
0	39,8	37,8	33,8	29,8	27,8
10	39,9	38,8	36,1	33,4	31,2
20	40,4	39,6	36,7	33,9	31,9
30	40,9	40,6	38,3	36,0	
40	41,8	41,4	39,4		
50	42,6				



Inlet + casing

ESP (Pa)	Fan speed 5 H	4	3 M	2 L	1
0	42,0	39,9	35,9	31,9	29,9
10	42,1	40,8	37,3	33,8	31,9
20	42,8	42,3	39,8	37,2	35,3
30	43,5	43,2	41,0	38,7	
40	44,5	44,5	42,5		
50	45,4				



3D122199A

7 Sound data

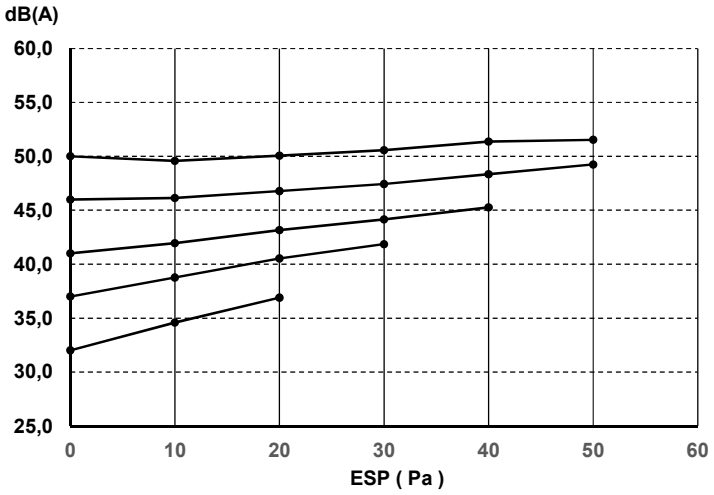
7 - 1 Sound Power Spectrum

FWE05DAFN5V3(L-R-S-T)
FWE05DATN5V3(L-R-S-T)

Sound Power overall (dBA)

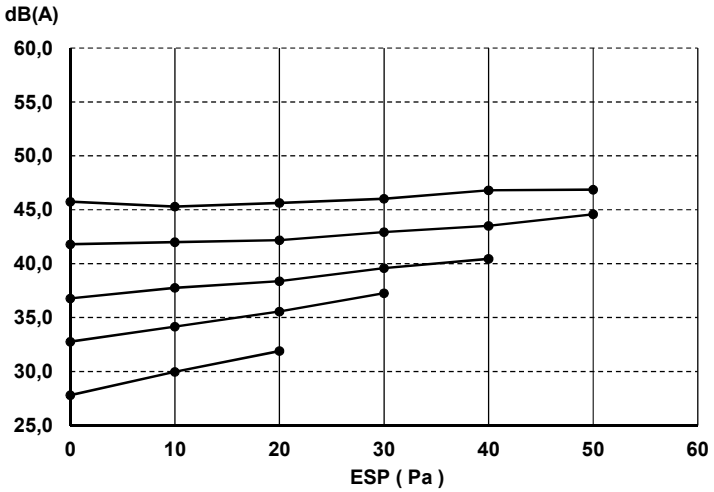
Whole casing

ESP (Pa)	Fan speed 5 H	4	3 M	2 L	1
0	50,0	46,0	41,0	37,0	32,0
10	49,6	46,2	42,0	38,8	34,6
20	50,1	46,8	43,2	40,5	36,9
30	50,6	47,4	44,1	41,9	
40	51,4	48,3	45,3		
50	51,5	49,3			



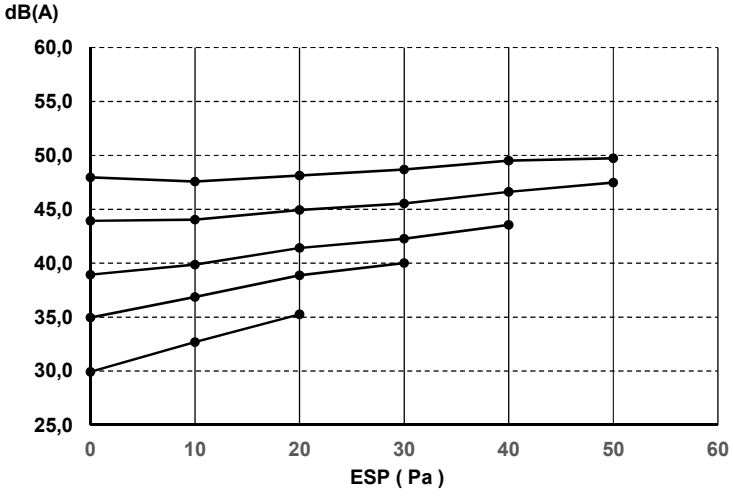
Discharge

ESP (Pa)	Fan speed 5 H	4	3 M	2 L	1
0	45,8	41,8	36,8	32,8	27,8
10	45,3	42,0	37,8	34,2	30,0
20	45,6	42,2	38,4	35,6	31,9
30	46,0	42,9	39,6	37,3	
40	46,8	43,5	40,4		
50	46,9	44,6			



Inlet + casing

ESP (Pa)	Fan speed 5 H	4	3 M	2 L	1
0	48,0	43,9	38,9	34,9	29,9
10	47,6	44,0	39,9	36,9	32,7
20	48,1	44,9	41,4	38,9	35,3
30	48,7	45,5	42,3	40,0	
40	49,5	46,6	43,5		
50	49,7	47,5			



3D122200A

7 Sound data

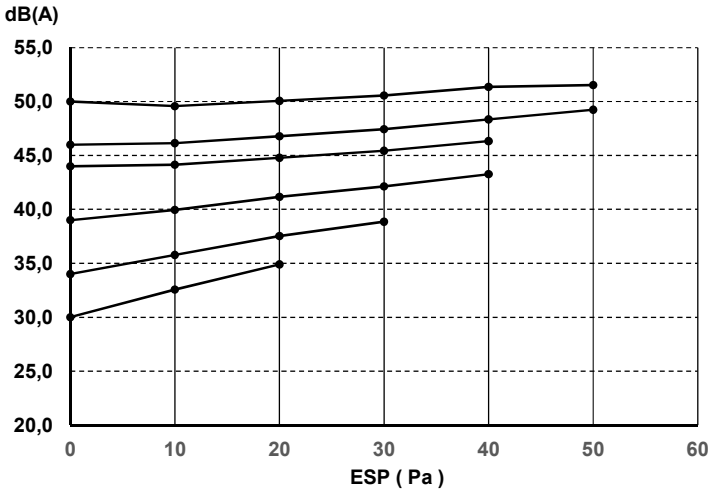
7 - 1 Sound Power Spectrum

FWE06DAFN5V3(L-R-S-T)
FWE06DATN5V3(L-R-S-T)

Sound Power overall (dBA)

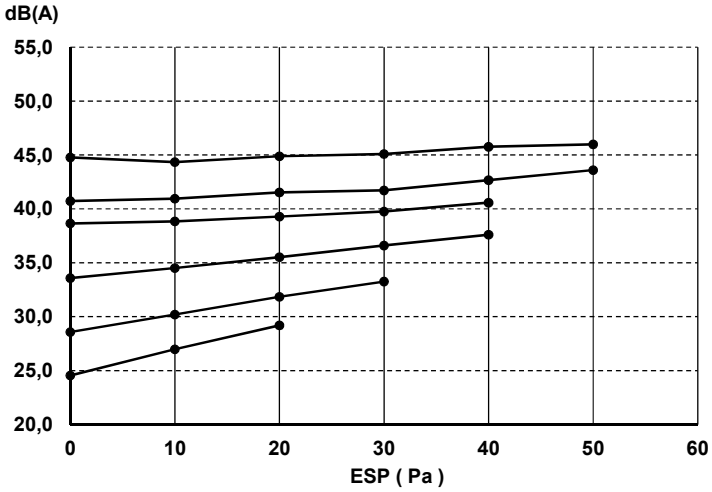
Whole casing

ESP (Pa)	Fan speed 6 H	5	4 M	3 L	2	1
0	50,0	46,0	44,0	39,0	34,0	30,0
10	49,6	46,2	44,2	40,0	35,8	32,6
20	50,1	46,8	44,8	41,2	37,5	34,9
30	50,6	47,4	45,4	42,1	38,9	
40	51,4	48,3	46,3	43,3		
50	51,5	49,3				



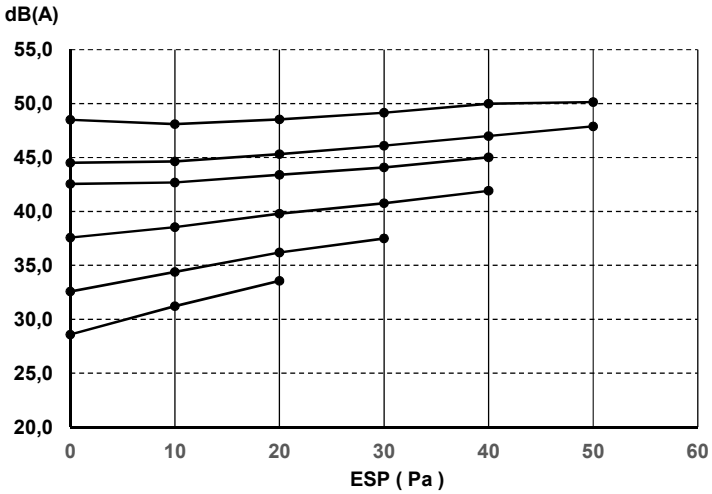
Discharge

ESP (Pa)	Fan speed 6 H	5	4 M	3 L	2	1
0	44,8	40,7	38,7	33,6	28,6	24,5
10	44,3	41,0	38,8	34,5	30,2	27,0
20	44,9	41,5	39,3	35,5	31,8	29,2
30	45,1	41,7	39,8	36,6	33,3	
40	45,8	42,7	40,6	37,6		
50	46,0	43,6				



Inlet + casing

ESP (Pa)	Fan speed 6 H	5	4 M	3 L	2	1
0	48,5	44,5	42,5	37,6	32,6	28,6
10	48,1	44,6	42,7	38,5	34,4	31,2
20	48,5	45,3	43,4	39,8	36,2	33,6
30	49,1	46,1	44,1	40,7	37,5	
40	50,0	47,0	45,0	41,9		
50	50,1	47,9				



3D122201A

7 Sound data

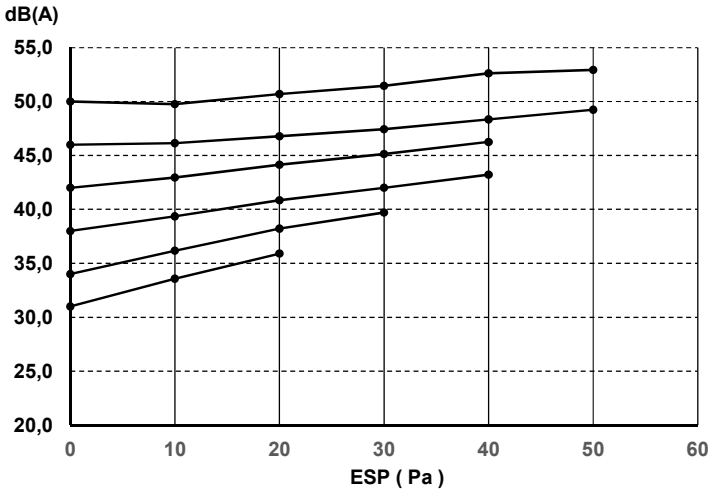
7 - 1 Sound Power Spectrum

FWE07DAFN5V3(L-R-S-T)
FWE07DATN5V3(L-R-S-T)

Sound Power overall (dBA)

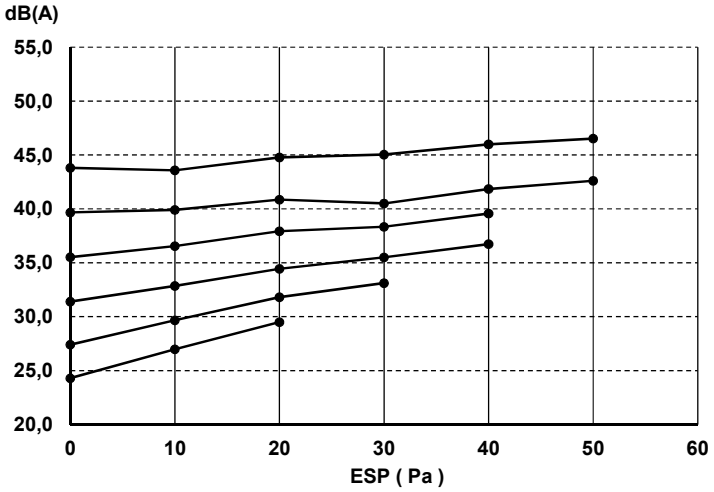
Whole casing

ESP (Pa)	Fan speed 6 H	5	4 M	3	2 L	1
0	50,0	46,0	42,0	38,0	34,0	31,0
10	49,8	46,2	43,0	39,4	36,2	33,6
20	50,7	46,8	44,2	40,8	38,2	35,9
30	51,5	47,4	45,1	42,0	39,7	
40	52,6	48,3	46,3	43,2		
50	52,9	49,3				



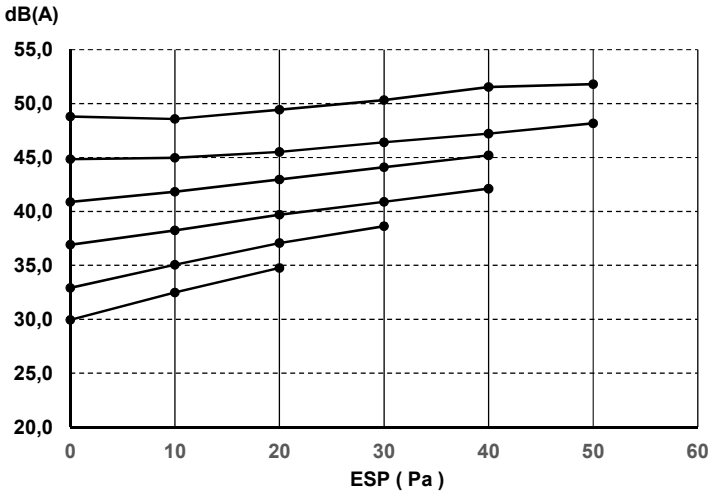
Discharge

ESP (Pa)	Fan speed 6 H	5	4 M	3	2 L	1
0	43,8	39,7	35,5	31,4	27,4	24,3
10	43,6	39,9	36,6	32,9	29,7	27,0
20	44,8	40,9	37,9	34,4	31,8	29,5
30	45,0	40,5	38,3	35,5	33,1	
40	46,0	41,8	39,6	36,7		
50	46,5	42,6				



Inlet + casing

ESP (Pa)	Fan speed 6 H	5	4 M	3	2 L	1
0	48,8	44,8	40,9	36,9	32,9	29,9
10	48,6	45,0	41,8	38,2	35,0	32,5
20	49,4	45,5	43,0	39,7	37,1	34,8
30	50,3	46,4	44,1	40,9	38,6	
40	51,5	47,2	45,2	42,1		
50	51,8	48,2				



3D122202A

7 Sound data

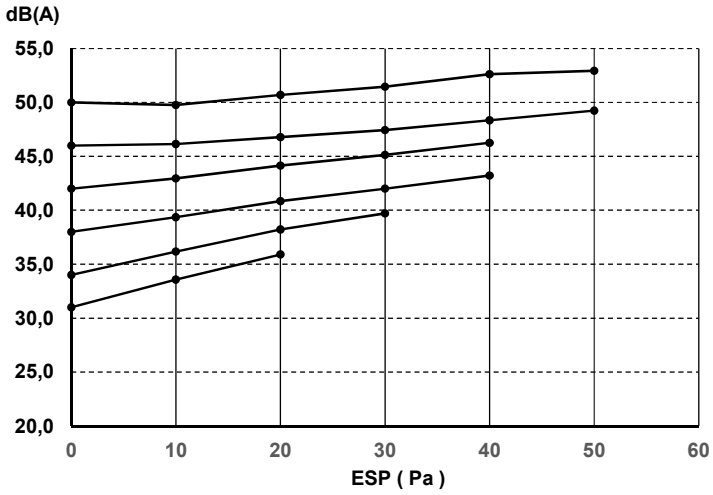
7 - 1 Sound Power Spectrum

FWE08DAFN5V3(L-R-S-T)
FWE08DATN5V3(L-R-S-T)

Sound Power overall (dBA)

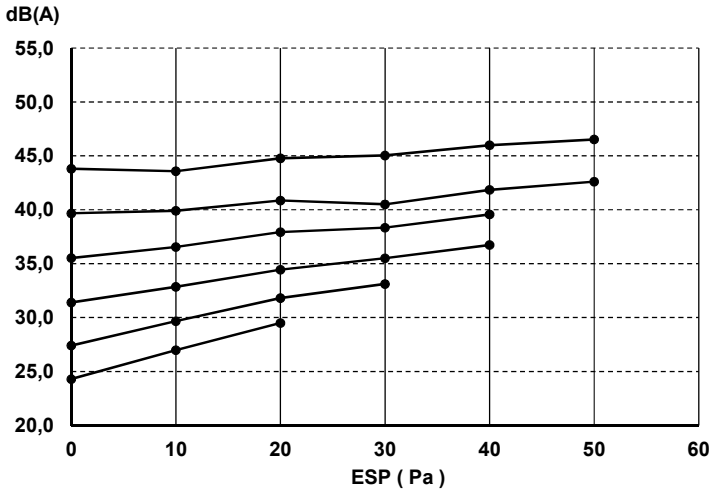
Whole casing

ESP (Pa)	Fan speed 6 H	5 M	4	3	2 L	1
0	50,0	46,0	42,0	38,0	34,0	31,0
10	49,8	46,2	43,0	39,4	36,2	33,6
20	50,7	46,8	44,2	40,8	38,2	35,9
30	51,5	47,4	45,1	42,0	39,7	
40	52,6	48,3	46,3	43,2		
50	52,9	49,3				



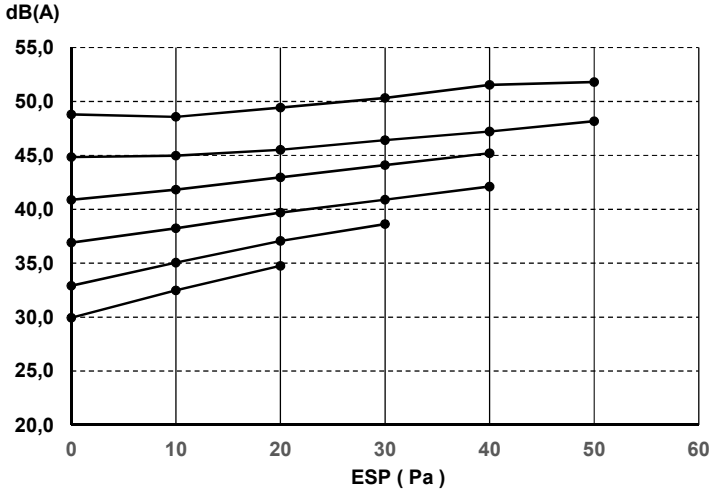
Discharge

ESP (Pa)	Fan speed 6 H	5 M	4	3	2 L	1
0	43,8	39,7	35,5	31,4	27,4	24,3
10	43,6	39,9	36,6	32,9	29,7	27,0
20	44,8	40,9	37,9	34,4	31,8	29,5
30	45,0	40,5	38,3	35,5	33,1	
40	46,0	41,8	39,6	36,7		
50	46,5	42,6				



Inlet + casing

ESP (Pa)	Fan speed 6 H	5 M	4	3	2 L	1
0	48,8	44,8	40,9	36,9	32,9	29,9
10	48,6	45,0	41,8	38,2	35,0	32,5
20	49,4	45,5	43,0	39,7	37,1	34,8
30	50,3	46,4	44,1	40,9	38,6	
40	51,5	47,2	45,2	42,1		
50	51,8	48,2				



3D122485A

7 Sound data

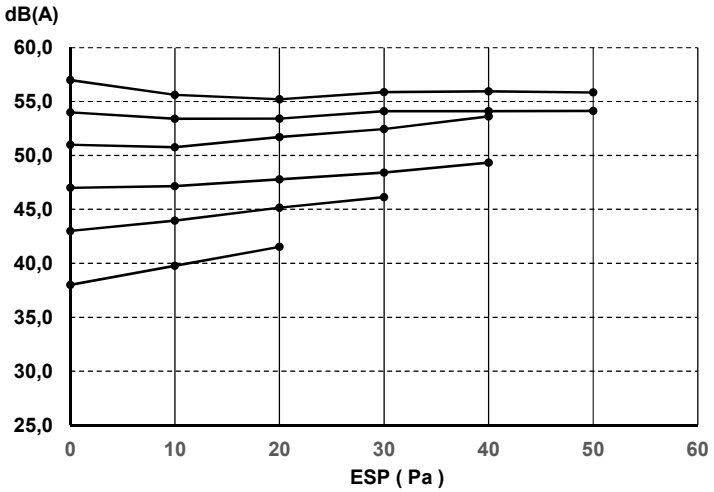
7 - 1 Sound Power Spectrum

FWE10DAFN5V3(L-R-S-T)
FWE10DATN5V3(L-R-S-T)

Sound Power overall (dBA)

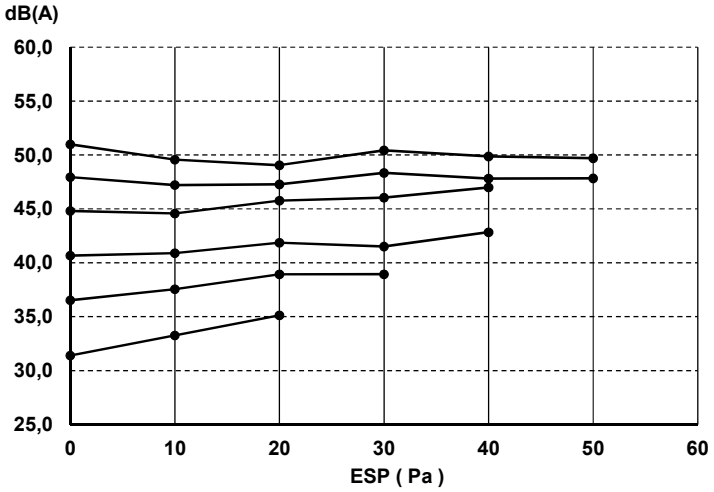
Whole casing

ESP (Pa)	Fan speed 6 H	5	4 M	3	2 L	1
0	57,0	54,0	51,0	47,0	43,0	38,0
10	55,6	53,4	50,8	47,2	44,0	39,8
20	55,2	53,4	51,7	47,8	45,2	41,5
30	55,9	54,1	52,5	48,4	46,1	
40	56,0	54,1	53,6	49,3		
50	55,9	54,1				



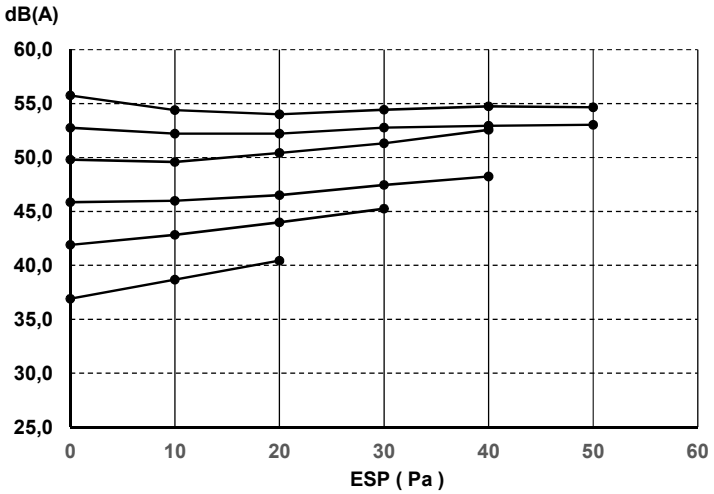
Discharge

ESP (Pa)	Fan speed 6 H	5	4 M	3	2 L	1
0	51,0	48,0	44,8	40,7	36,5	31,4
10	49,6	47,2	44,6	40,9	37,6	33,3
20	49,1	47,3	45,8	41,9	38,9	35,1
30	50,4	48,3	46,0	41,5	38,9	
40	49,9	47,8	47,0	42,8		
50	49,7	47,8				



Inlet + casing

ESP (Pa)	Fan speed 6 H	5	4 M	3	2 L	1
0	55,7	52,8	49,8	45,8	41,9	36,9
10	54,4	52,2	49,6	46,0	42,8	38,7
20	54,0	52,2	50,4	46,5	44,0	40,4
30	54,4	52,8	51,3	47,5	45,2	
40	54,7	52,9	52,6	48,2		
50	54,6	53,0				



3D122203A

7 Sound data

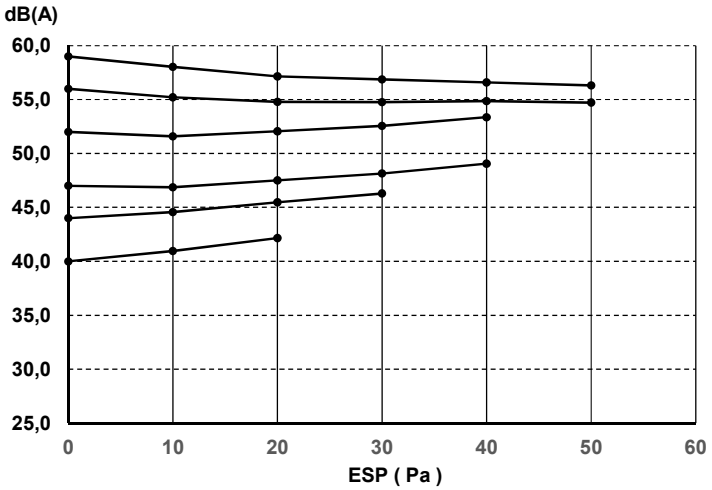
7 - 1 Sound Power Spectrum

FWE11DAFN5V3(L-R-S-T)
FWE11DATN5V3(L-R-S-T)

Sound Power overall (dBA)

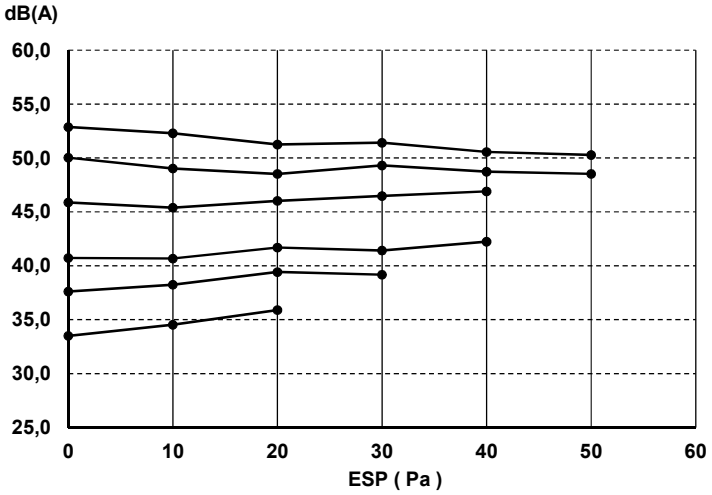
Whole casing

ESP (Pa)	Fan speed 6 H	5	4 M	3	2 L	1
0	59,0	56,0	52,0	47,0	44,0	40,0
10	58,0	55,2	51,6	46,9	44,6	41,0
20	57,2	54,8	52,1	47,5	45,5	42,2
30	56,9	54,8	52,6	48,2	46,3	
40	56,6	54,9	53,4	49,1		
50	56,3	54,7				



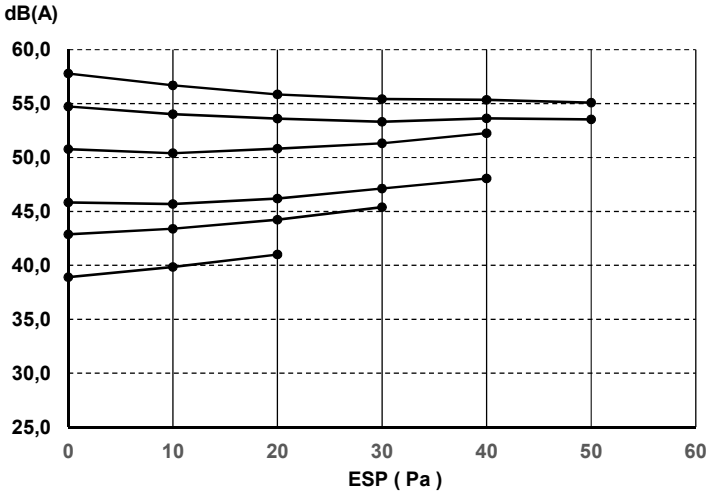
Discharge

ESP (Pa)	Fan speed 6 H	5	4 M	3	2 L	1
0	52,9	50,0	45,9	40,7	37,6	33,5
10	52,3	49,0	45,4	40,7	38,2	34,5
20	51,3	48,5	46,0	41,7	39,4	35,9
30	51,4	49,3	46,5	41,4	39,2	
40	50,6	48,7	46,9	42,2		
50	50,3	48,5				



Inlet + casing

ESP (Pa)	Fan speed 6 H	5	4 M	3	2 L	1
0	57,8	54,7	50,8	45,8	42,9	38,9
10	56,7	54,0	50,4	45,7	43,4	39,8
20	55,9	53,6	50,8	46,2	44,2	41,0
30	55,4	53,3	51,3	47,1	45,4	
40	55,4	53,6	52,3	48,0		
50	55,1	53,5				



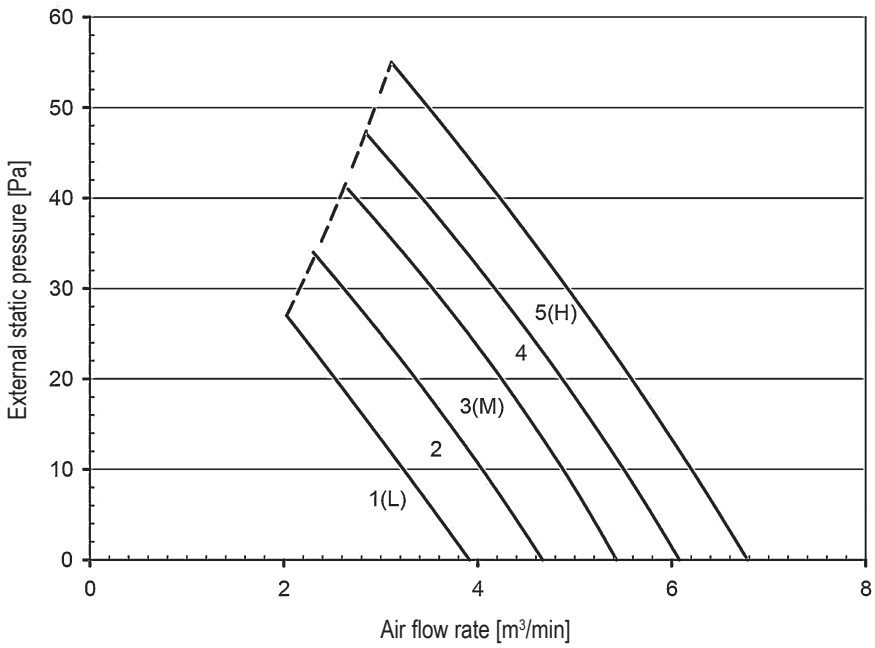
3D122205A

8 Fan characteristics

8 - 1 Fan Characteristics

FWE03DAFN5V3(L-R-S-T)
FWE03DATN5V3(L-R-S-T)

FWE03DA(F/T)



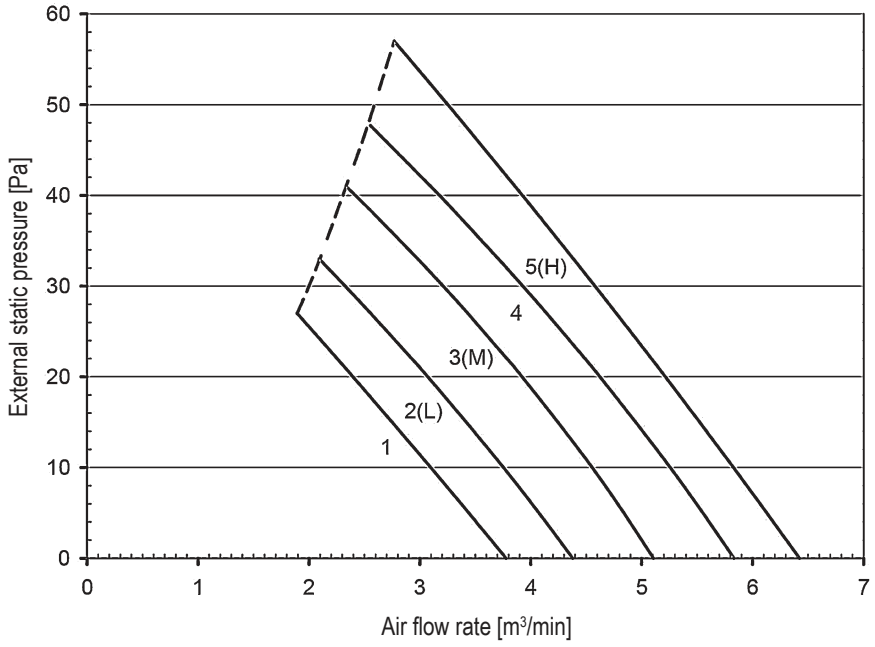
NOTES

1. The fan characteristics shown are in "fan only" mode.
2. Air temperature condition: 20°C DB, 15°C WB (RH 59%).
3. Power supply condition: 50Hz 230V.

4D122210

FWE04DAFN5V3(L-R-S-T)
FWE04DATN5V3(L-R-S-T)

FWE04DA(F/T)



NOTES

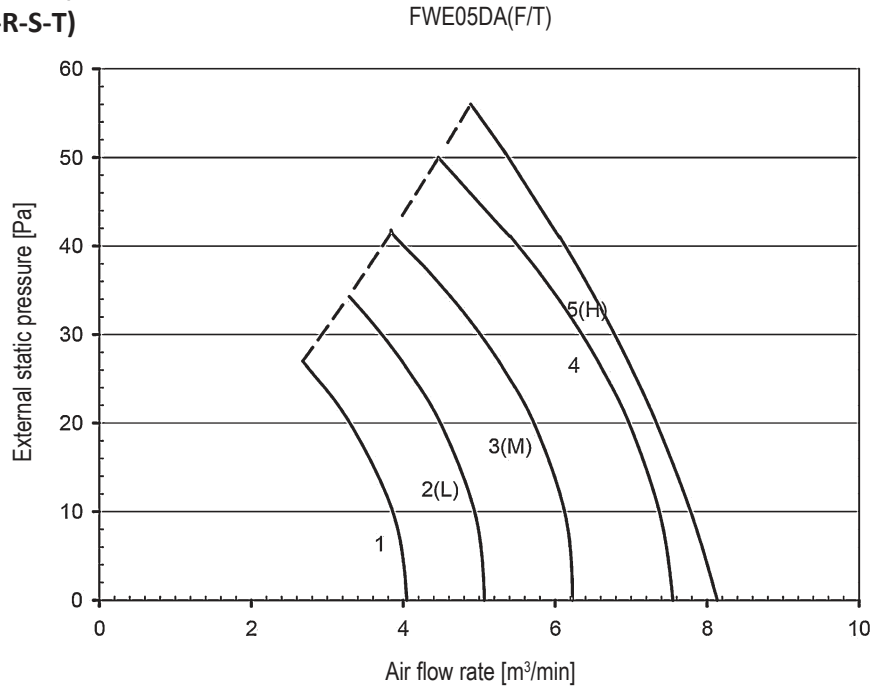
1. The fan characteristics shown are in "fan only" mode.
2. Air temperature condition: 20°C DB, 15°C WB (RH 59%).
3. Power supply condition: 50Hz 230V.

4D122211

8 Fan characteristics

8 - 1 Fan Characteristics

FWE05DAFN5V3(L-R-S-T)
FWE05DATN5V3(L-R-S-T)

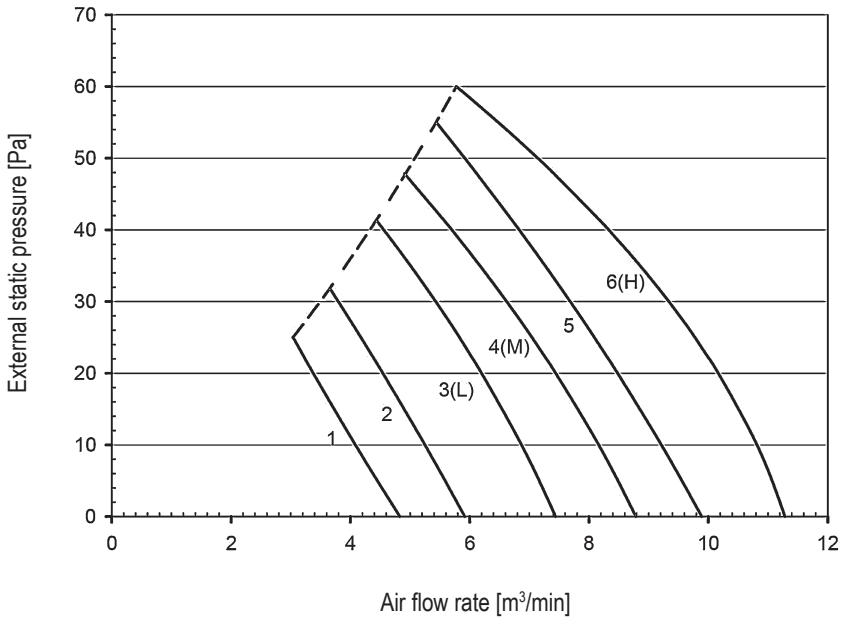


NOTES

1. The fan characteristics shown are in "fan only" mode.
2. Air temperature condition: 20°C DB, 15°C WB (RH 59%).
3. Power supply condition: 50Hz 230V.

4D122212

FWE06DAFN5V3(L-R-S-T)
FWE06DATN5V3(L-R-S-T)



NOTES

1. The fan characteristics shown are in "fan only" mode.
2. Air temperature condition: 20°C DB, 15°C WB (RH 59%).
3. Power supply condition: 50Hz 230V.

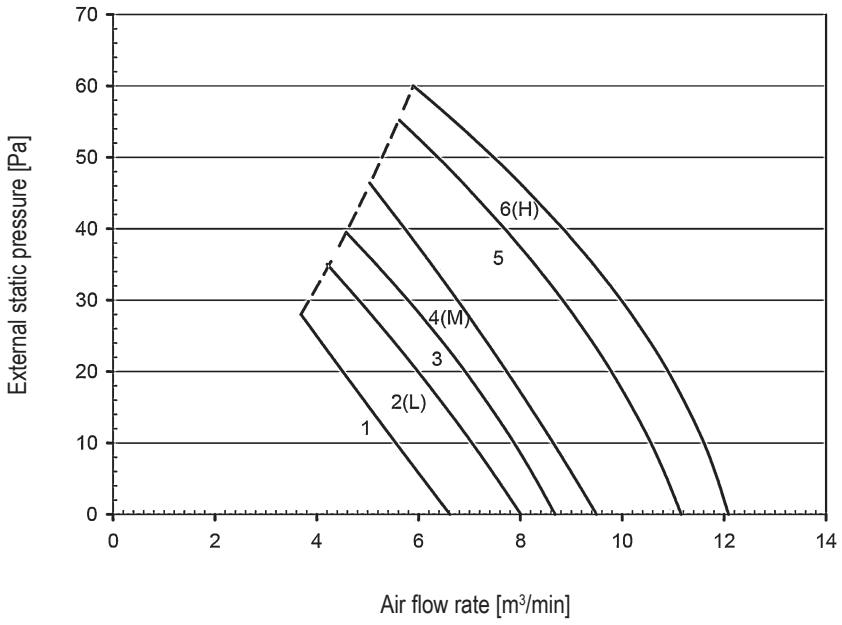
4D122213

8 Fan characteristics

8 - 1 Fan Characteristics

FWE07DAFN5V3(L-R-S-T)
FWE07DATN5V3(L-R-S-T)

FWE07DA(F/T)



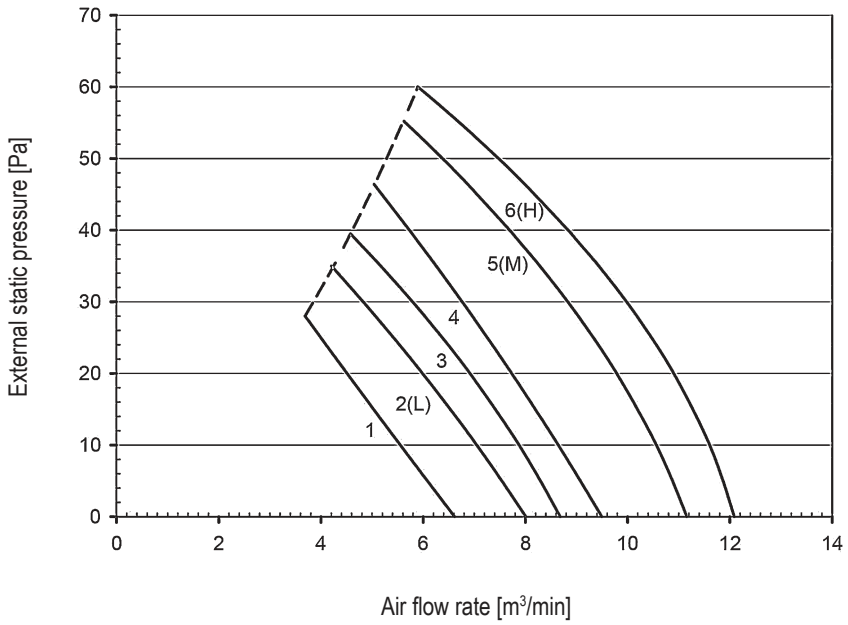
NOTES

1. The fan characteristics shown are in "fan only" mode.
2. Air temperature condition: 20°C DB, 15°C WB (RH 59%).
3. Power supply condition: 50Hz 230V.

4D122214

FWE08DAFN5V3(L-R-S-T)
FWE08DATN5V3(R-R-S-T)

FWE8DA(F/T)



NOTES

1. The fan characteristics shown are in "fan only" mode.
2. Air temperature condition: 20°C DB, 15°C WB (RH 59%).
3. Power supply condition: 50Hz 230V.

4D122548

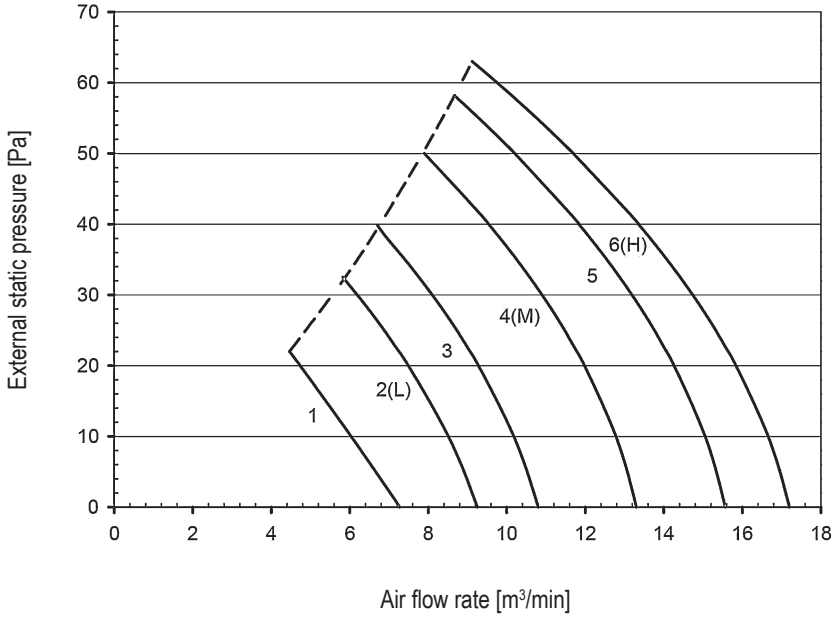
8 Fan characteristics

8 - 1 Fan Characteristics

8

FWE10DAFN5V(L-R-S-T)
FWE10DATN5V(L-R-S-T)

FWE10DA(F/T)



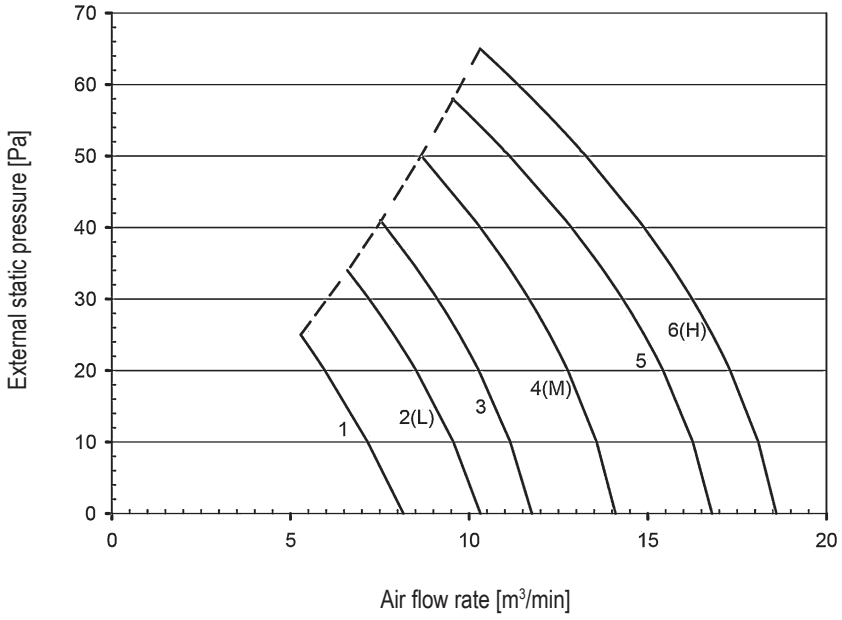
NOTES

1. The fan characteristics shown are in "fan only" mode.
2. Air temperature condition: 20°C DB, 15°C WB (RH 59%).
3. Power supply condition: 50Hz 230V.

4D122215

FWE11DAFN5V3(L-R-S-T)
FWE11DATN5V3(L-R-S-T)

FWE11DA(F/T)



NOTES

1. The fan characteristics shown are in "fan only" mode.
2. Air temperature condition: 20°C DB, 15°C WB (RH 59%).
3. Power supply condition: 50Hz 230V.

4D122216

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