



Concealed flexi type
unit with low ESP
Technical Data
FWE-DAFN5V3-T



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FWE-DAFN5V3-T

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1 Features

1 - 1 FWE-DAFN5V3-T

- › Same side water and electric connection: Right 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-T

Technical Specifications				FWE03DAFN5V3-T	FWE04DAFN5V3-T	FWE05DAFN5V3-T	FWE06DAFN5V3-T
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
	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
	Heating capacity (standard conditions)	Capacity 4-pipe	Fan speed 1	kW	1.47	2.11	2.16
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		0.05		
Fan speed 3	kW		0.03		0.05		
Fan speed 4	kW		0.03		0.062		
Fan speed 5	kW		0.03		0.062		
Fan speed 6	kW		-		0.062		
Low	kW		0.03		0.062		
Med.	kW		0.03		0.062		
Dimensions	Unit	Height	mm	0.033	0.032	0.039	0.062
		Width	mm	200			
		Depth	mm	795			
	Packed unit	Height	mm	610			
		Width	mm	205			
		Depth	mm	925			
Weight	Unit	kg	18.0	19.0		22.5	
		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		ø7.5 smooth tube				
	Tube thickness	mm	0.32				
Air filter	Type		Plastic Frame / PP Filter Net (G1)				
	Quantity	pc	2				3

2 Specifications

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Technical Specifications				FWE03DAFN5V3-T	FWE04DAFN5V3-T	FWE05DAFN5V3-T	FWE06DAFN5V3-T	
Fan	Type			Sirocco fan				
	Quantity			2			3	
	Air flow rate	Fan speed 1	m³/h	235	227	243	290	
		Fan speed 2	m³/h	280	263	304	355	
		Fan speed 3	m³/h	326	306	374	446	
		Fan speed 4	m³/h	365	350	453	527	
		Fan speed 5	m³/h	407	385	488	593	
		Fan speed 6	m³/h	-				677
		Low	m³/h	235	263	304	446	
		Medium	m³/h	326	306	374	527	
		High	m³/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		
Sound pressure level	High	dBA	45.0	44.0	50.0			
	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		
Sound pressure level	Low	dBA	21.0	23.0	27.0	29.0		
	Medium	dBA	28.0	27.0	31.0	34.0		
	High	dBA	35.0	34.0	40.0			

2 Specifications

1 - 1 FWE-DAFN5V3-T

Technical Specifications				FWE03DAFN5V3-T	FWE04DAFN5V3-T	FWE05DAFN5V3-T	FWE06DAFN5V3-T
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	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-T	FWE08DAFN5V3-T	FWE10DAFN5V3-T	FWE11DAFN5V3-T
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

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Technical Specifications				FWE07DAFN5V3-T		FWE08DAFN5V3-T		FWE10DAFN5V3-T		FWE11DAFN5V3-T	
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)									
Fan	Quantity		pc	3							
	Type	Sirocco fan									
Fan	Quantity	4									
	Air flow rate	Fan speed 1	m³/h	397		436		489			
		Fan speed 2	m³/h	481		555		619			
		Fan speed 3	m³/h	521		648		705			
		Fan speed 4	m³/h	570		798		846			
		Fan speed 5	m³/h	669		934		1,008			
		Fan speed 6	m³/h	725		1,032		1,116			
		Low	m³/h	481		555		619			
		Medium	m³/h	570	669	798		846			
		High	m³/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								
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-T

Technical Specifications				FWE07DAFN5V3-T		FWE08DAFN5V3-T		FWE10DAFN5V3-T		FWE11DAFN5V3-T			
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-T	FWE04DAFN5V3-T	FWE05DAFN5V3-T	FWE06DAFN5V3-T
Power supply	Type	Phase	Frequency	Hz	V	230 / 1 / 50	
						1~	
						50	
						230	

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

- Voltage limits:
Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below/above listed range limits.
- Max. allowable voltage unbalance between phases 2%.
- MCA = 1,25 x FLA;
(Next lower standard fuse rating min. 16A)
- Select wire size based on the MCA.
- 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 kW	Sc kW	Wf l/h	Dp kPa	Pc kW	Sc kW	Wf l/h	Dp kPa	Pc kW	Sc kW	Wf l/h	Dp kPa	Pc kW	Sc kW	Wf l/h	Dp 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	623	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	735	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	840	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)

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 kW	Sc kW	Wf l/h	Dp kPa	Pc kW	Sc kW	Wf l/h	Dp kPa	Pc kW	Sc kW	Wf l/h	Dp kPa	Pc kW	Sc kW	Wf l/h	Dp 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	167	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 kW	Sc kW	Wf l/h	Dp kPa	Pc kW	Sc kW	Wf l/h	Dp kPa	Pc kW	Sc kW	Wf l/h	Dp kPa	Pc kW	Sc kW	Wf l/h	Dp 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)

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

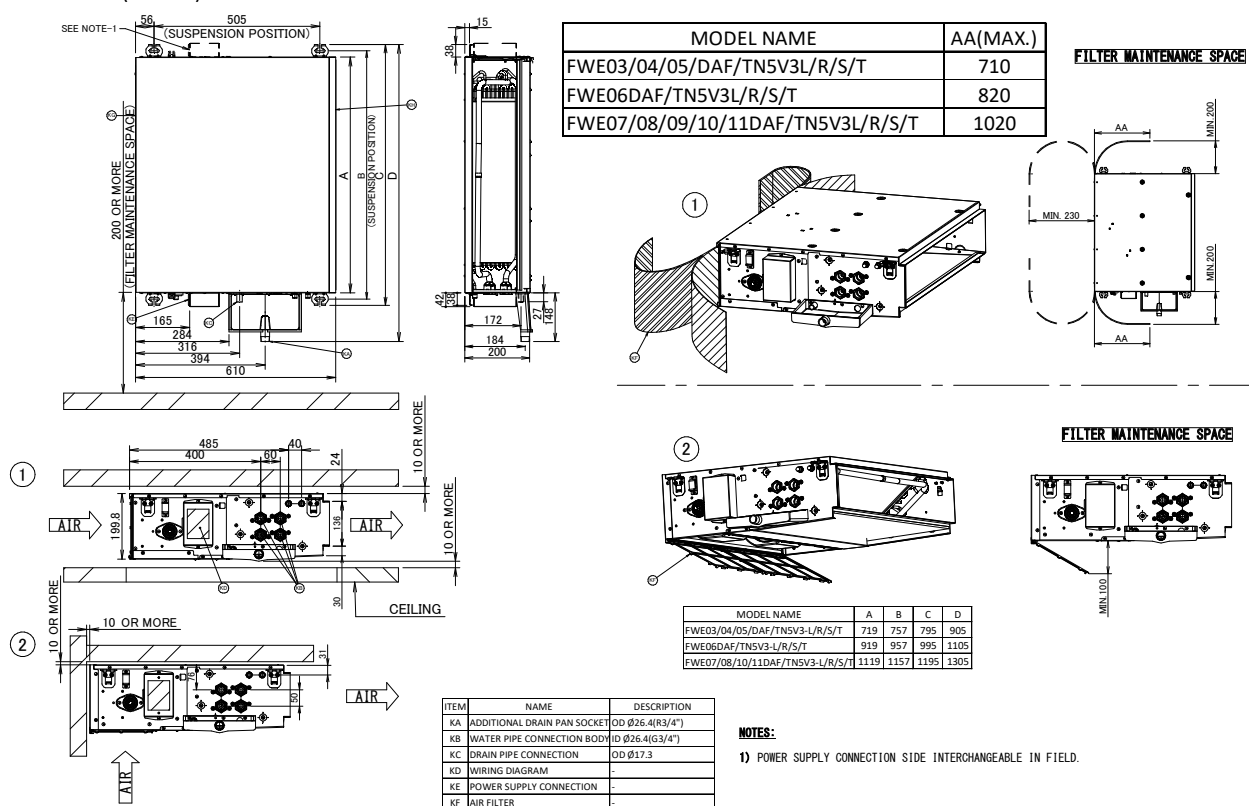
3D122207

5 Dimensional drawings

5 - 1 Dimensional Drawings

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

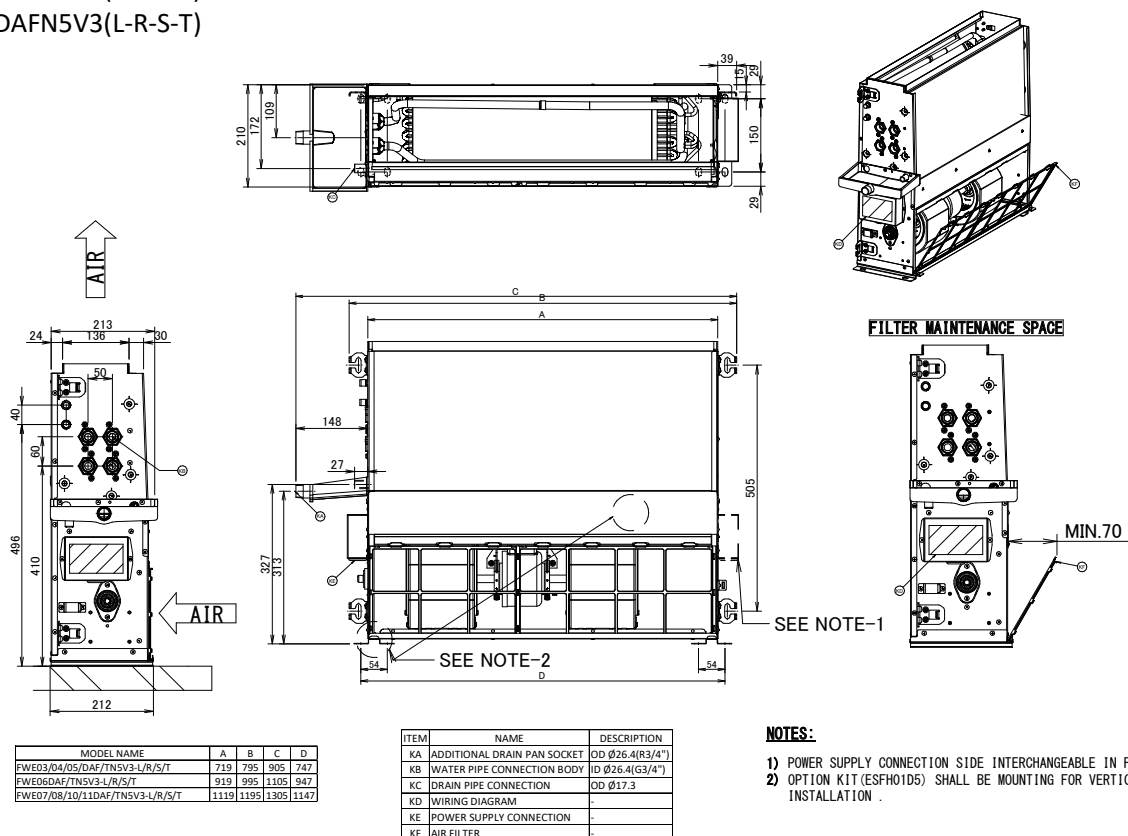
FWE-DATN5V3(L-R-S-T)



1D125336

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

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



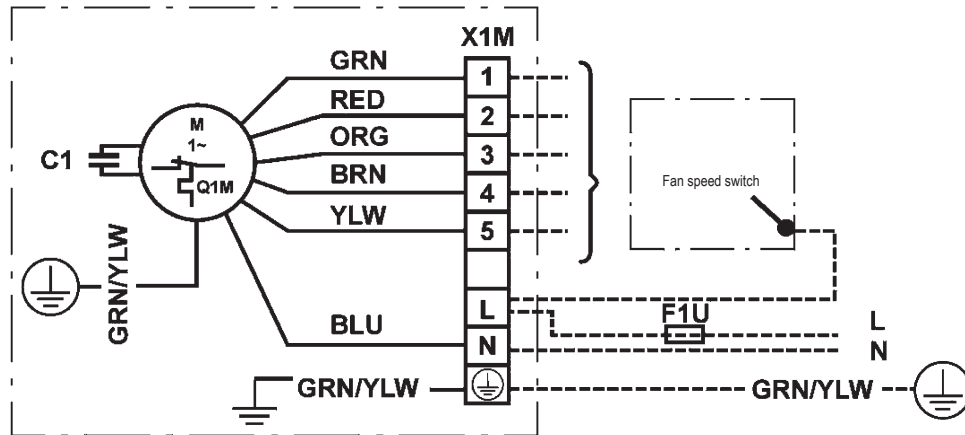
1D125339

6 Wiring diagrams

6 - 1 Wiring Diagrams - Single Phase

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

Wiring diagram



NOTES

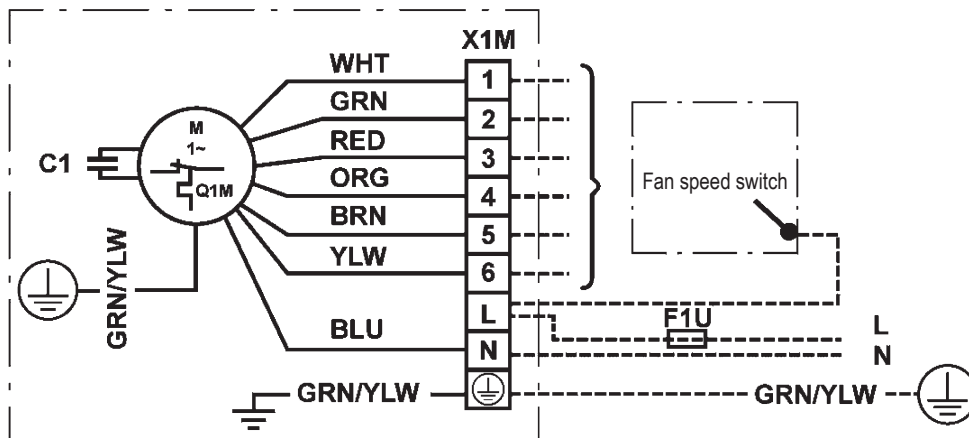
---	Field wiring	L	AC sytem supply	WHT	White
M	Fan motor	N	Neutral	RED	Red
F1U	Fuse	C1	Capacitor	ORG	Orange
X1M	Terminal strip	⊕	Protector earth	BRN	Brown
1	Lowest speed	⬇	Earth	YLW	Yellow
5	Highest speed	Q1M	Self-operating thermal protector	BLU	Blue
				GRN/YLW	Green / Yellow

* 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

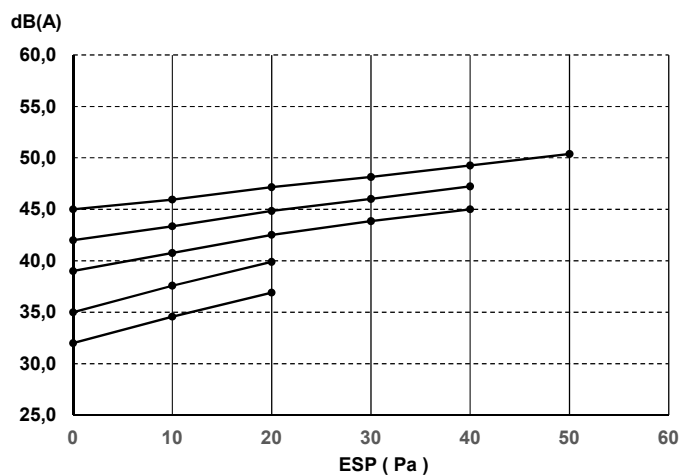
FWE03DAFN5V3(L-R-S-T)

FWE03DATN5V3(L-R-S-T)

Sound Power overall (dBA)

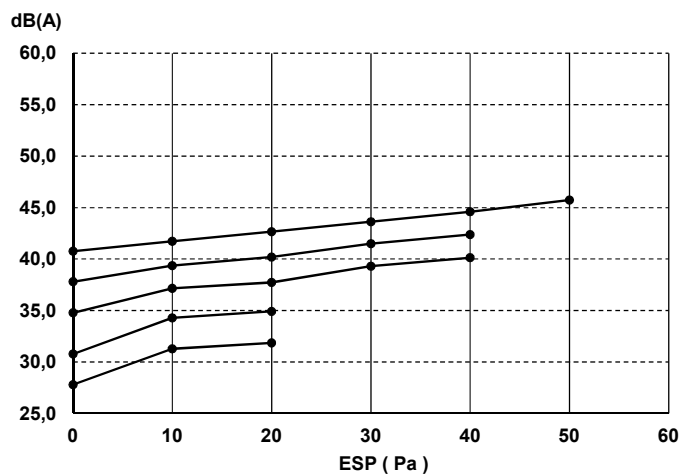
Whole casing

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				



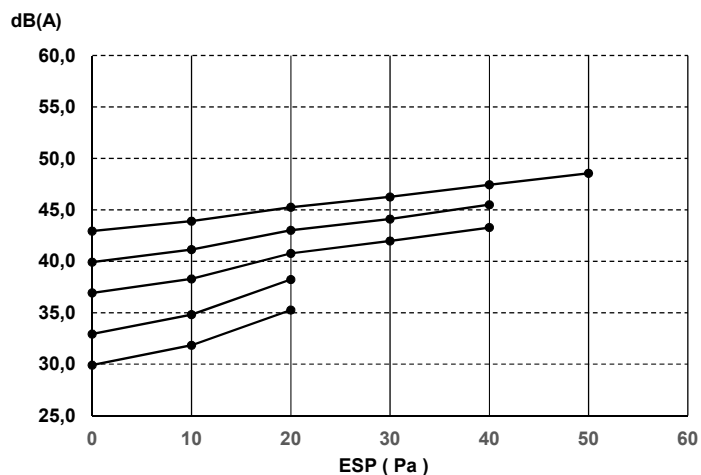
Discharge

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

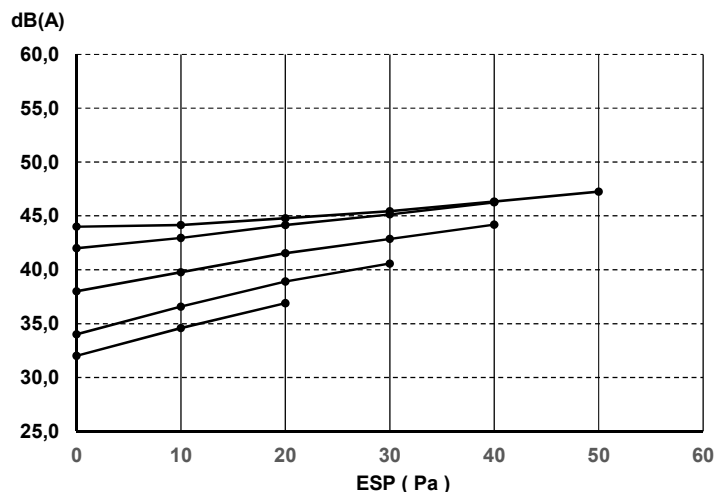
FWE04DAFN5V3(L-R-S-T)

FWE04DATN5V3(L-R-S-T)

Sound Power overall (dBA)

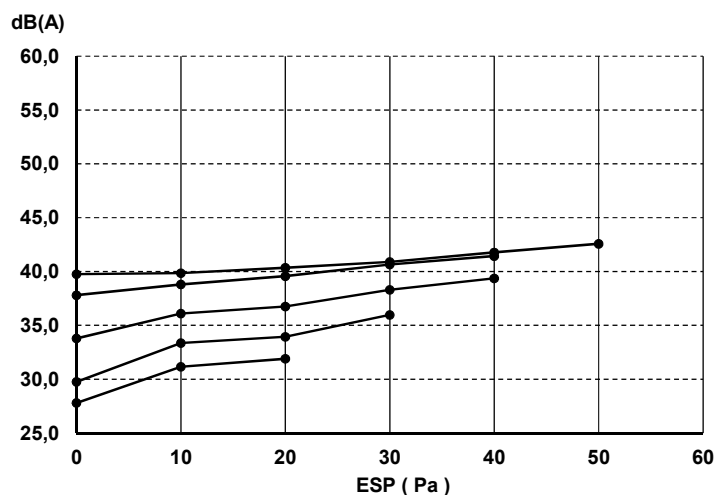
Whole casing

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				



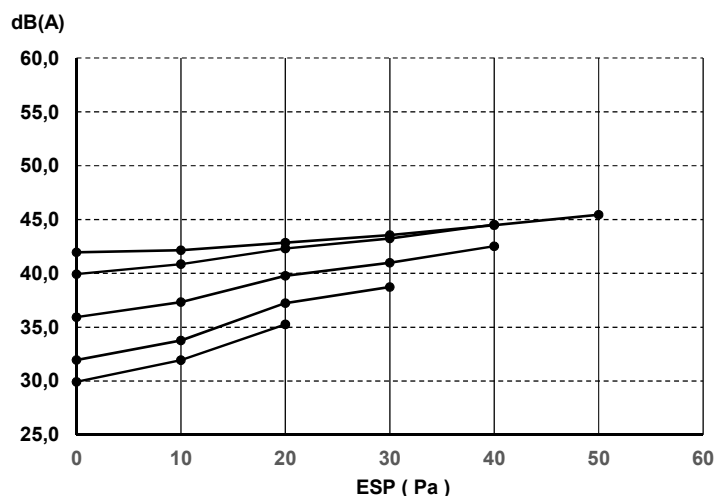
Discharge

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

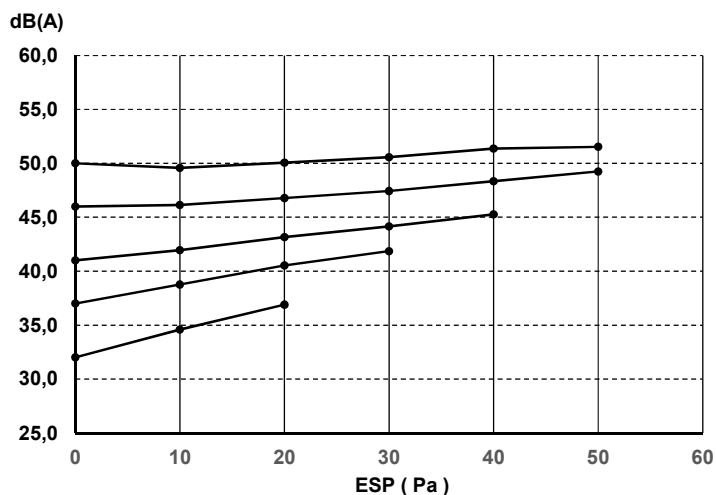
FWE05DAFN5V3(L-R-S-T)

FWE05DATN5V3(L-R-S-T)

Sound Power overall (dBA)

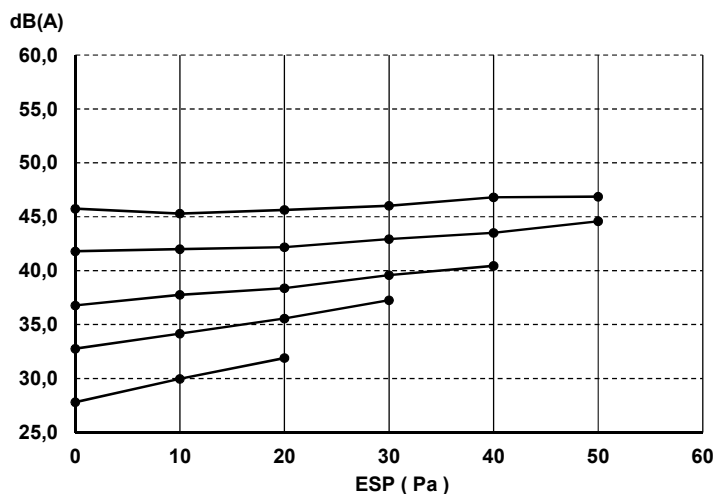
Whole casing

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			



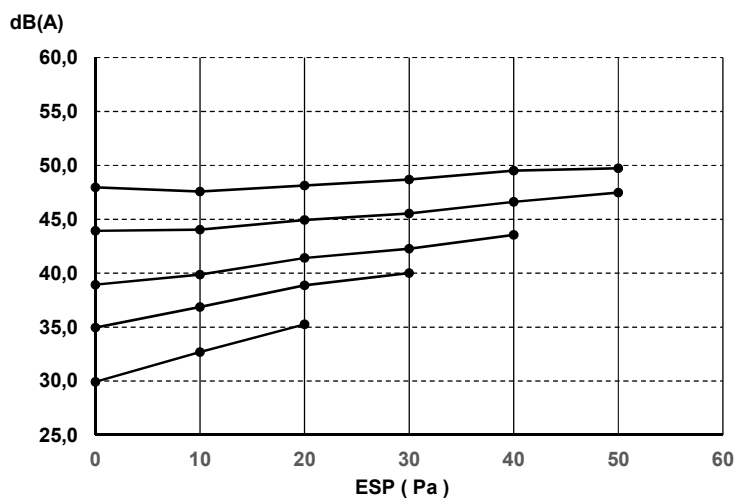
Discharge

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

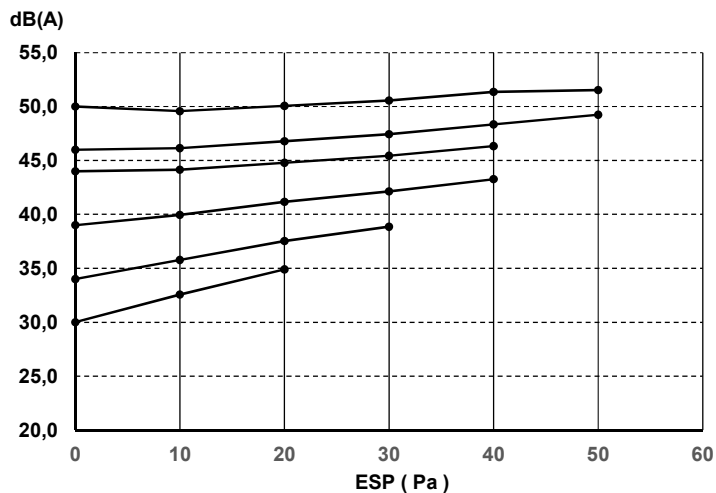
FWE06DAFN5V3(L-R-S-T)

FWE06DATN5V3(L-R-S-T)

Sound Power overall (dBA)

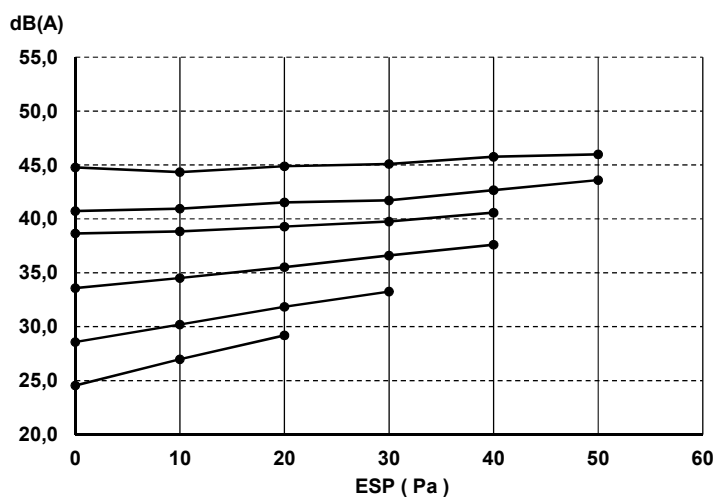
Whole casing

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				



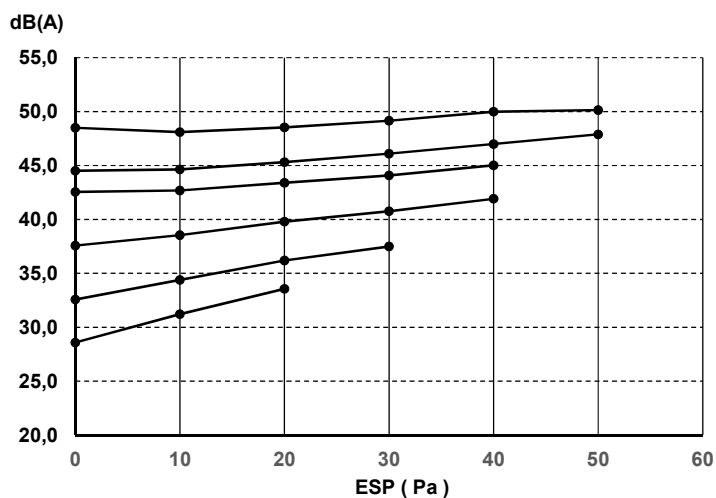
Discharge

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

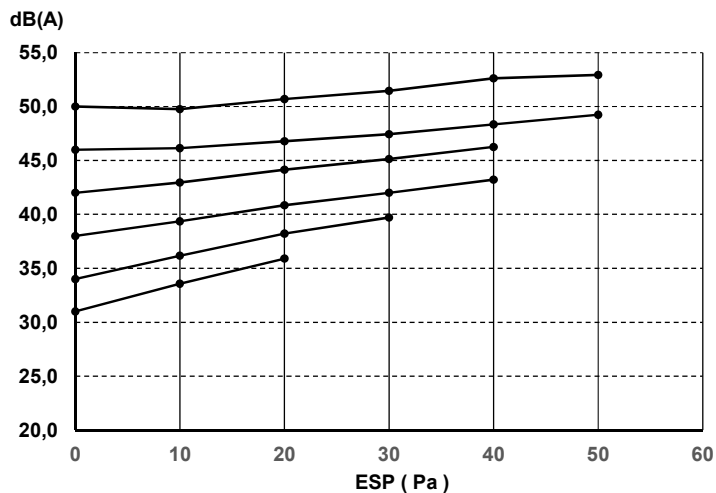
FWE07DAFN5V3(L-R-S-T)

FWE07DATN5V3(L-R-S-T)

Sound Power overall (dBA)

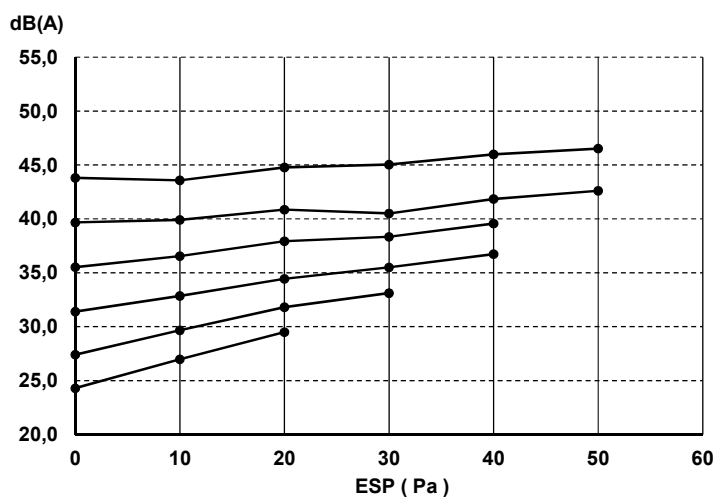
Whole casing

ESP (Pa)	Fan speed					
	6	5	4	3	2	1
	H		M		L	
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				



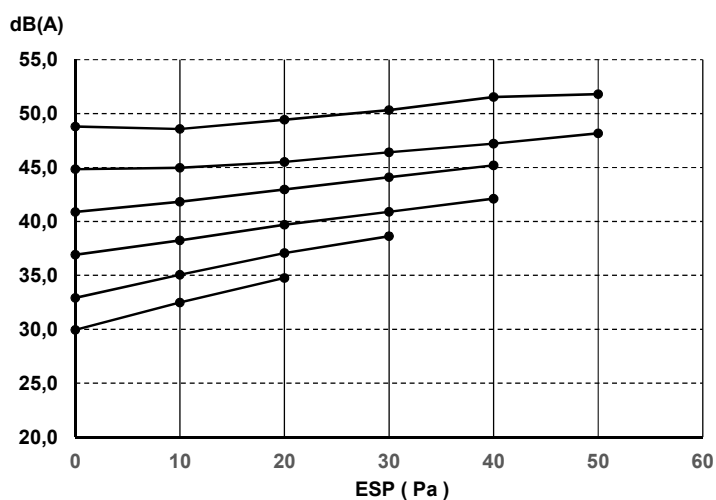
Discharge

ESP (Pa)	Fan speed					
	6	5	4	3	2	1
	H		M		L	
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	5	4	3	2	1
	H		M		L	
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

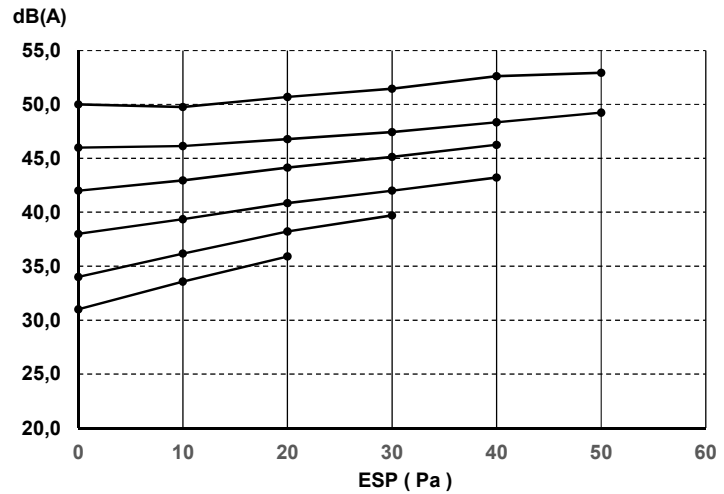
FWE08DAFN5V3(L-R-S-T)

FWE08DATN5V3(L-R-S-T)

Sound Power overall (dBA)

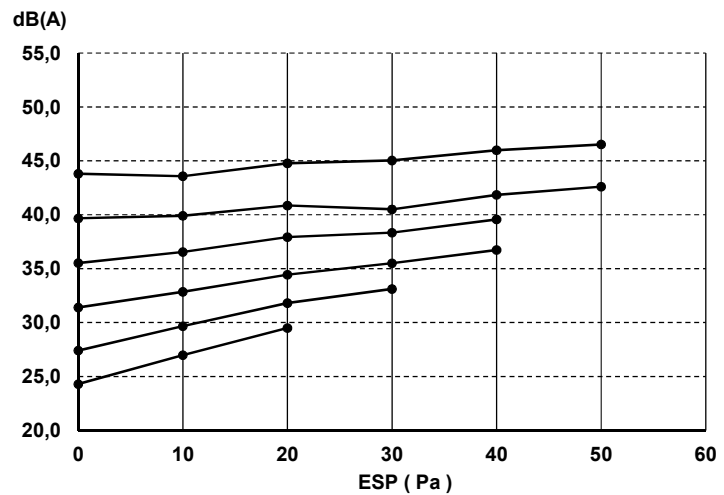
Whole casing

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				



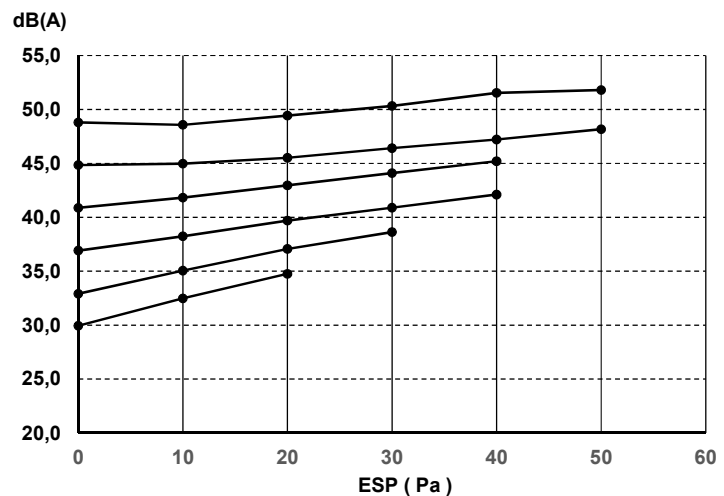
Discharge

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

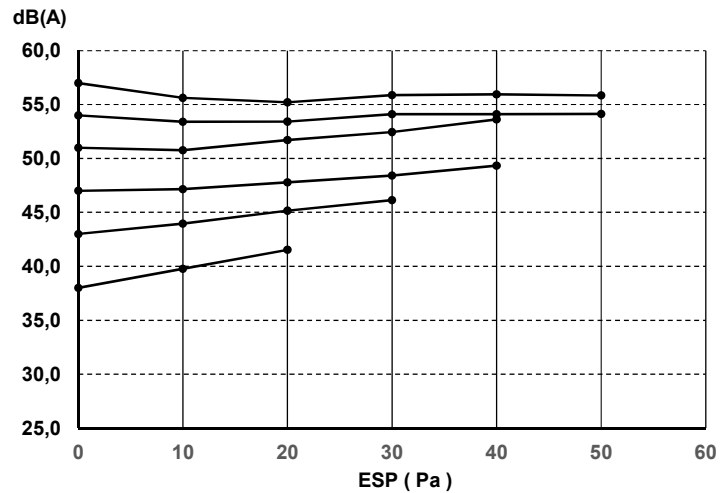
FWE10DAFN5V3(L-R-S-T)

FWE10DATN5V3(L-R-S-T)

Sound Power overall (dBA)

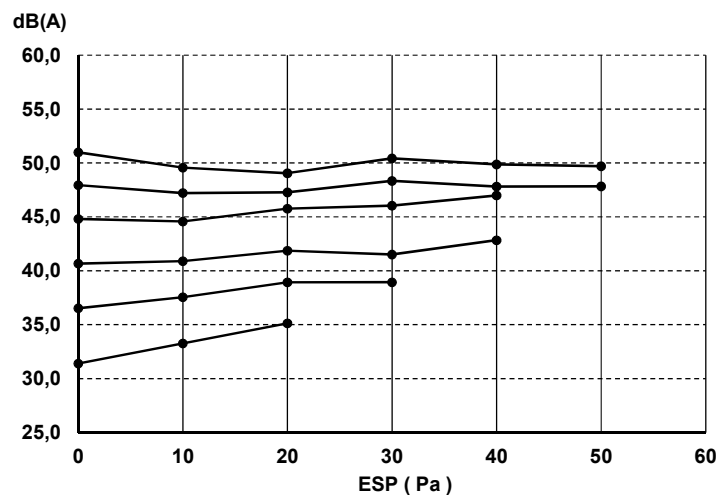
Whole casing

ESP (Pa)	Fan speed					
	6	5	4	3	2	1
	H		M		L	
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				



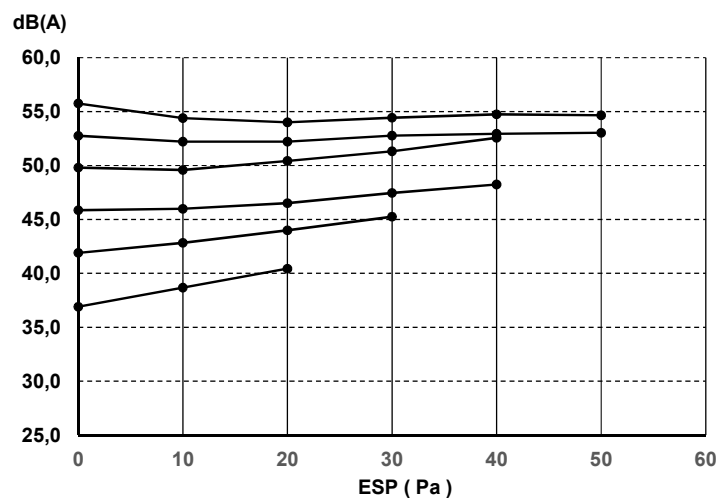
Discharge

ESP (Pa)	Fan speed					
	6	5	4	3	2	1
	H		M		L	
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	5	4	3	2	1
	H		M		L	
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

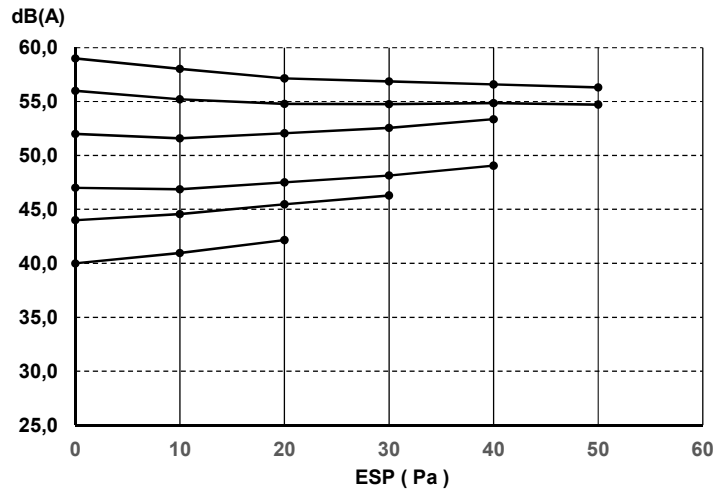
FWE11DAFN5V3(L-R-S-T)

FWE11DATN5V3(L-R-S-T)

Sound Power overall (dBA)

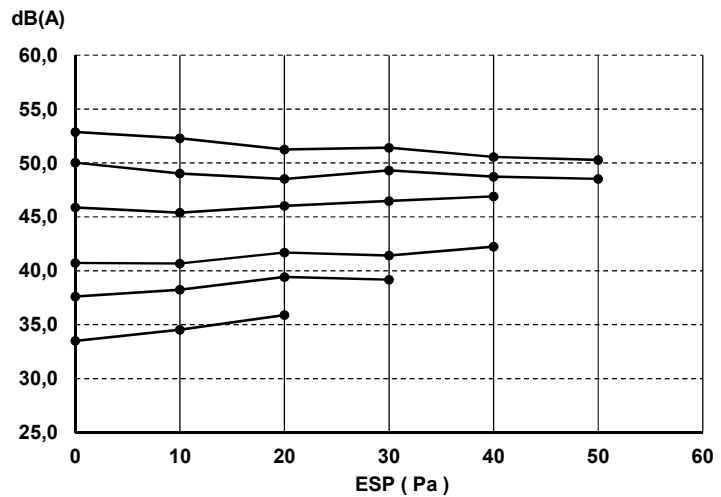
Whole casing

ESP (Pa)	Fan speed					
	6	5	4	3	2	1
	H		M		L	
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				



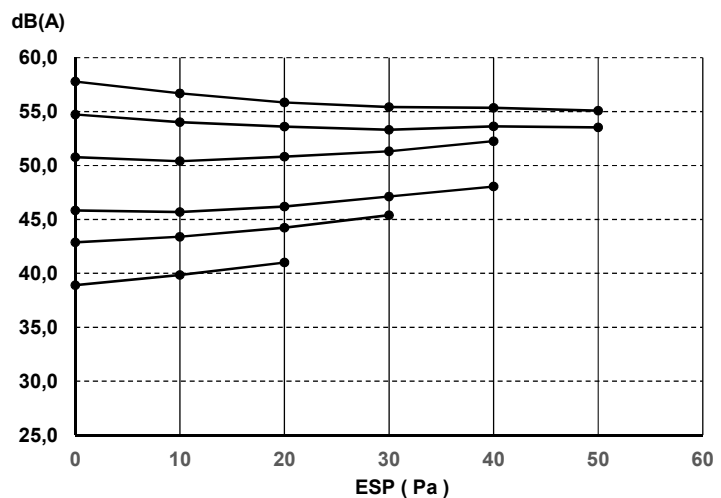
Discharge

ESP (Pa)	Fan speed					
	6	5	4	3	2	1
	H		M		L	
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	5	4	3	2	1
	H		M		L	
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

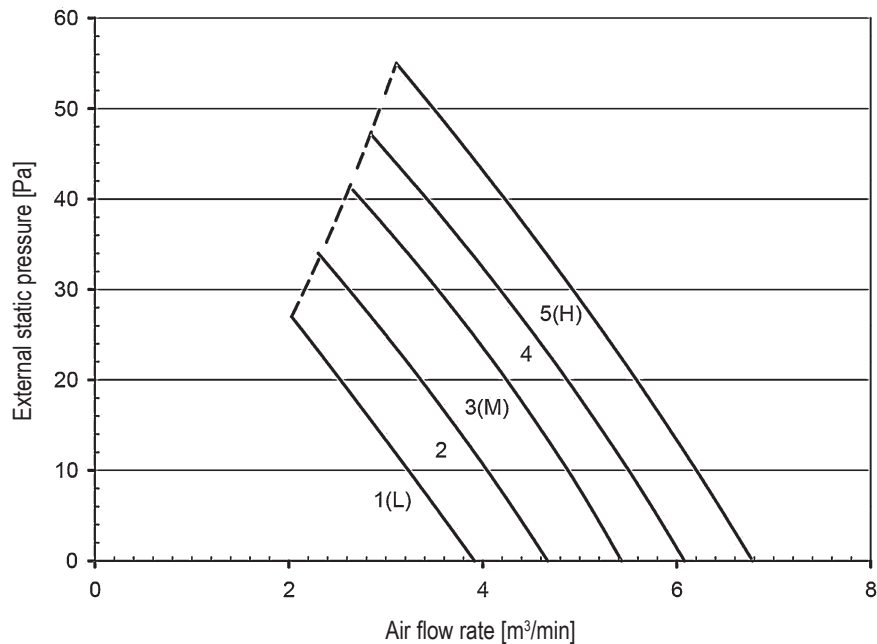
8 - 1 Fan Characteristics

8

FWE03DAFN5V3(L-R-S-T)

FWE03DATN5V3(L-R-S-T)

FWE03DA(F/T)



NOTES

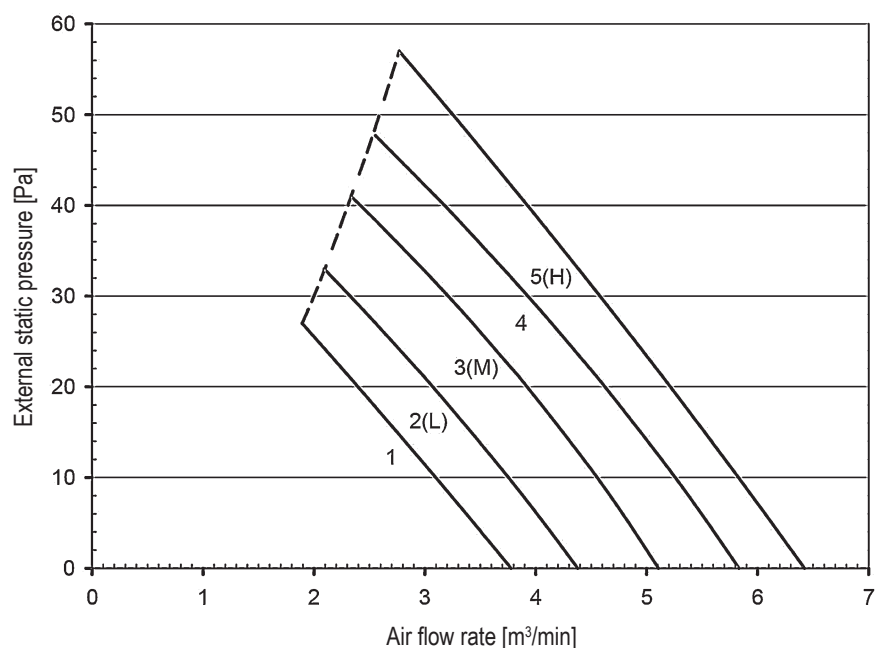
1. The fan characteristics shown are in "fan only" mode.
2. Air temperature condition: 20°C DB, 15°C WB (RH 59%).
3. Power supply condition: 50Hz 230V.

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

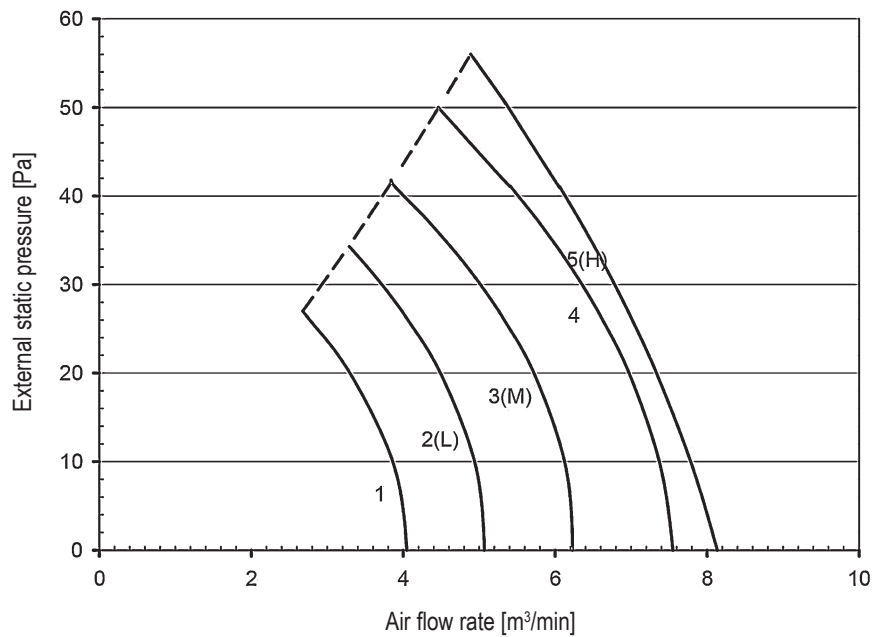
8 - 1 Fan Characteristics

8

FWE05DAFN5V3(L-R-S-T)

FWE05DATN5V3(L-R-S-T)

FWE05DA(F/T)



NOTES

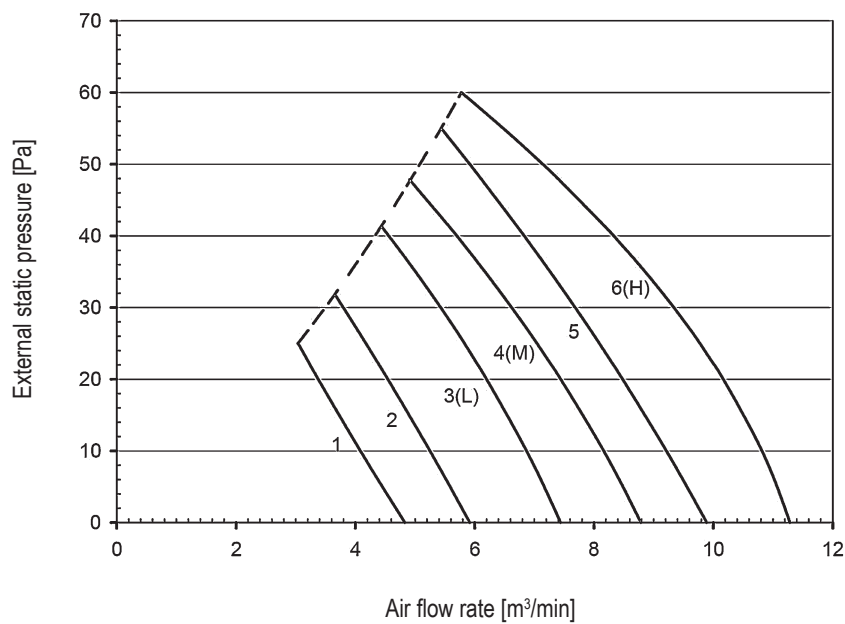
1. The fan characteristics shown are in "fan only" mode.
2. Air temperature condition: 20°C DB, 15°C WB (RH 59%).
3. Power supply condition: 50Hz 230V.

4D122212

FWE06DAFN5V3(L-R-S-T)

FWE06DATN5V3(L-R-S-T)

FWE06DA(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.

4D122213

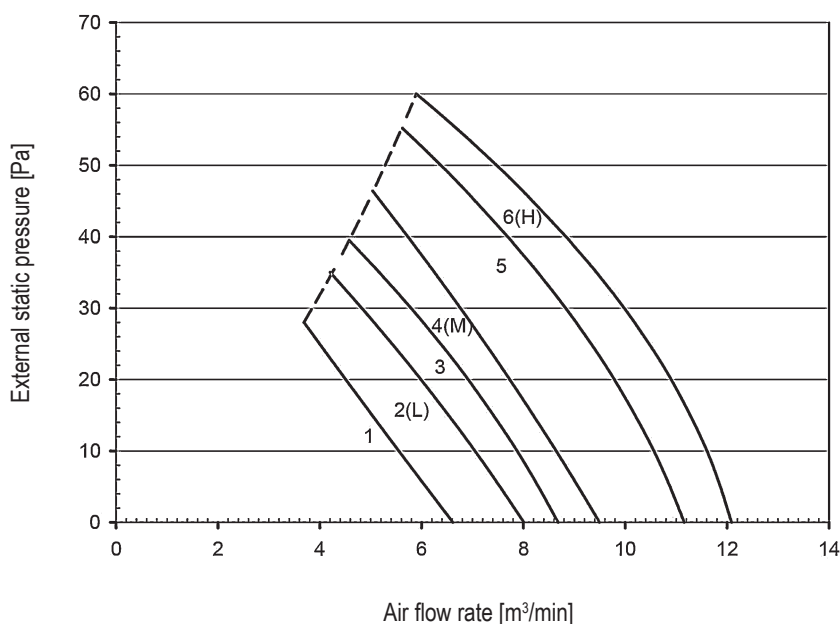
8 Fan characteristics

8 - 1 Fan Characteristics

FWE07DAFN5V3(L-R-S-T)

FWE07DATN5V3(L-R-S-T)

FWE07DA(F/T)



NOTES

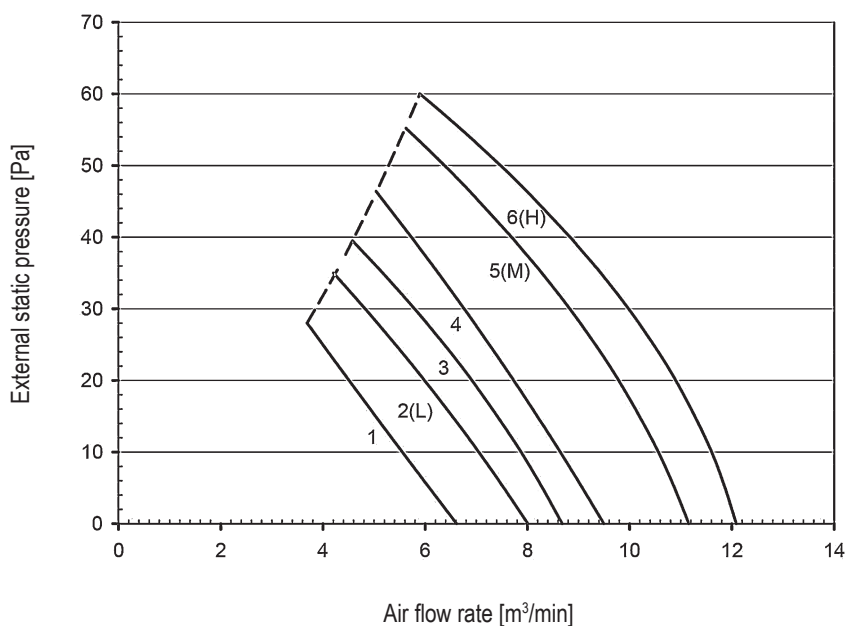
1. The fan characteristics shown are in "fan only" mode.
2. Air temperature condition: 20°C DB, 15°C WB (RH 59%).
3. Power supply condition: 50Hz 230V.

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

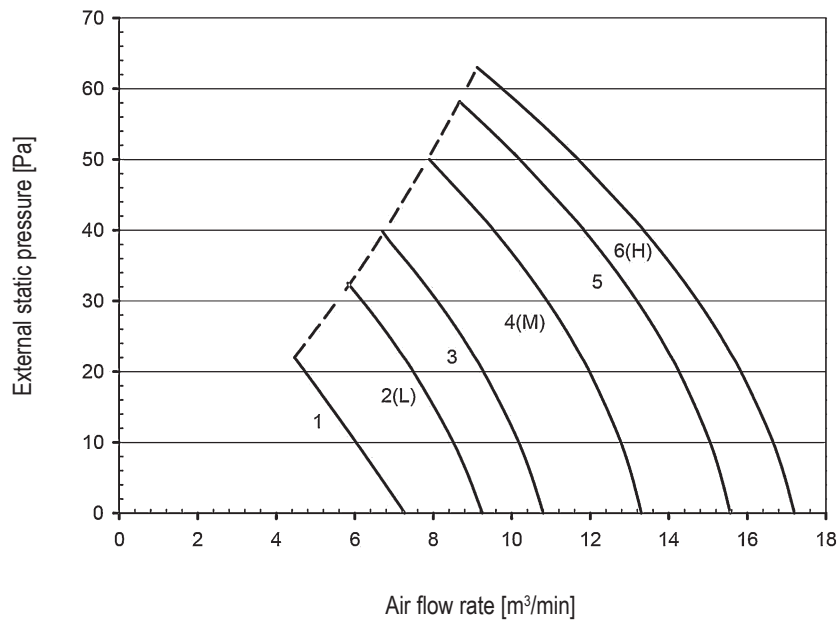
8 Fan characteristics

8 - 1 Fan Characteristics

8

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

FWE10DA(F/T)



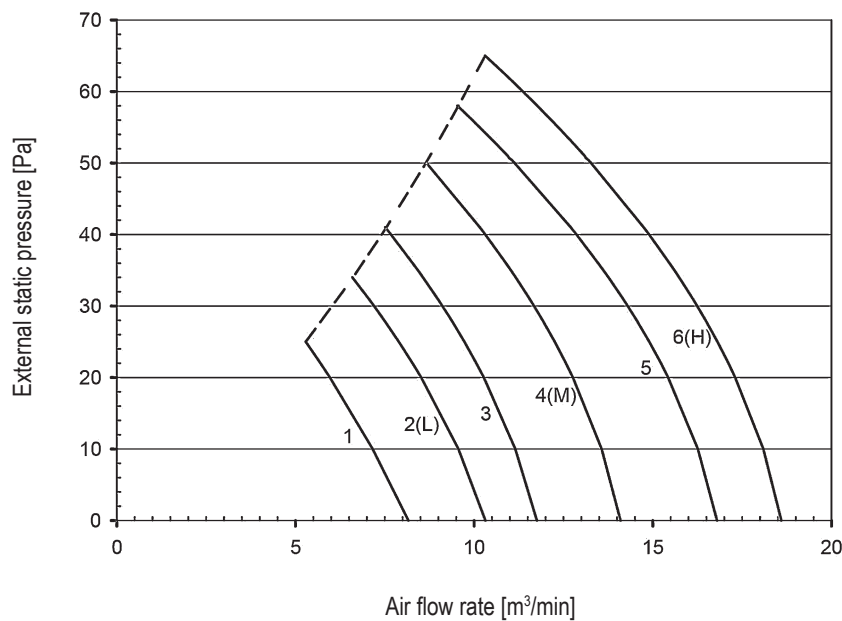
NOTES

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)

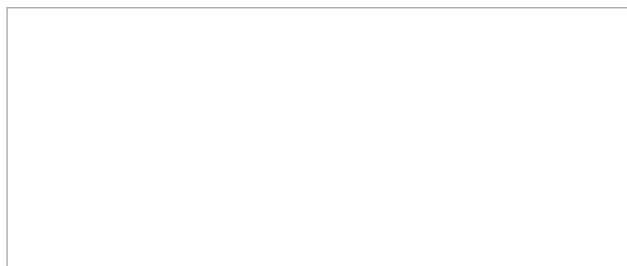
FWE11DA(F/T)



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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04/2020



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