



Concealed flexi type
unit with low ESP
Technical Data
FWE-DATN5V3-R



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FWE-DATN5V3-R

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1 Features

1 - 1 FWE-DATN5V3-R

- › Opposite water and electric connection: Right water connection and left 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-DATN5V3-R

Technical Specifications				FWE03DATN5V3-R	FWE04DATN5V3-R	FWE05DATN5V3-R	FWE06DATN5V3-R	
Cooling capacity (standard conditions)	Latent capacity	High	kW	0.32	0.34	0.43	0.49	
		Super high	kW	0.35	0.37	0.46	0.56	
	Sensible capacity	Fan speed 1	kW	1.00	0.99	1.09	1.02	
		Fan speed 2	kW	1.16	1.15	1.35	1.28	
	2-pipe	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	2-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	2-pipe	Fan speed 1	kW	1.34	1.60	1.68	2.13
			Fan speed 2	kW	1.51	1.78	1.98	2.46
			Fan speed 3	kW	1.69	1.99	2.32	2.94
			Fan speed 4	kW	1.84	2.21	2.71	3.36
			Fan speed 5	kW	2.00	2.38	2.89	3.70
			Fan speed 6	kW		-		4.00
			Low	kW	1.34	1.78	1.98	2.94
			Medium	kW	1.69	1.99	2.32	3.36
			High	kW	2.00	2.38	2.89	4.00
	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				
		Depth	mm	610				
	Packed unit	Height	mm	205				
		Width	mm	925				
		Depth	mm	745				
Weight	Unit	kg	17.5	18.5			22.0	
	Packed unit	kg	20	21			25	
Casing	Colour		Metal					
	Material		Galvanised sheet metal					
Heat exchanger	Length		mm	490			690	
Heat exchanger	Rows	Quantity		2				
	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

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Technical Specifications				FWE03DATN5V3-R		FWE04DATN5V3-R		FWE05DATN5V3-R		FWE06DATN5V3-R	
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	
	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-DATN5V3-R

Technical Specifications				FWE03DATN5V3-R	FWE04DATN5V3-R	FWE05DATN5V3-R	FWE06DATN5V3-R
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	230	275	289	366
		Fan speed 2	l/h	260	306	341	424
		Fan speed 3	l/h	290	343	400	505
		Fan speed 4	l/h	316	379	467	577
		Fan speed 5	l/h	344	409	496	636
		Fan speed 6	l/h		-		689
		High	l/h	344	409	496	689
		Low	l/h	230	306	341	505
		Medium	l/h	290	343	400	577
	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	9	7		5
		Fan speed 2	kPa	11	8	10	6
		Fan speed 3	kPa	13	10	14	9
		Fan speed 4	kPa	16	13	20	12
		Fan speed 5	kPa	19	15	22	15
		Fan speed 6	kPa		-		17
		Low	kPa	9	8	10	9
		Medium	kPa	13	10	14	12
		High	kPa	19	15	22	17
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				FWE07DATN5V3-R	FWE08DATN5V3-R	FWE10DATN5V3-R	FWE11DATN5V3-R
Cooling capacity (standard conditions)	Latent capacity 2-pipe	High	kW	0.58	0.66	0.86	0.92
		Super high	kW	0.62	0.71	0.94	1.01
	Sensible capacity 2-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 2-pipe	Fan speed 1	kW	2.07	2.38	2.57	2.81
		Fan speed 2	kW	2.41	2.77	3.10	3.39
		Fan speed 3	kW	2.58	2.96	3.52	3.78
		Fan speed 4	kW	2.79	3.19	4.19	4.41
		Fan speed 5	kW	3.20	3.66	4.79	5.13
		Fan speed 6	kW	3.43	3.92	5.22	5.60
		Low	kW	2.41	2.77	3.10	3.39
		Medium	kW	2.79	3.66	4.19	4.41
		High	kW	3.43	3.92	5.22	5.60

2 Specifications

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Technical Specifications				FWE07DATN5V3-R	FWE08DATN5V3-R	FWE10DATN5V3-R	FWE11DATN5V3-R
Heating capacity (standard conditions)	Capacity 2-pipe	Fan speed 1	kW	2.74	3.20	3.37	3.60
		Fan speed 2	kW	3.15	3.56	3.89	4.17
		Fan speed 3	kW	3.35	3.74	4.30	4.55
		Fan speed 4	kW	3.60	3.96	4.96	5.17
		Fan speed 5	kW	4.09	4.39	5.55	5.88
		Fan speed 6	kW	4.37	4.64	5.98	6.35
		Low	kW	3.15	3.56	3.89	4.17
		Medium	kW	3.60	4.39	4.96	5.17
		High	kW	4.37	4.64	5.98	6.35
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	25.5				
	Packed unit	kg	29				
Casing	Colour	Metal					
	Material	Galvanised sheet metal					
Heat exchanger	Length	mm	890				
Heat exchanger	Rows	Quantity	2				
	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			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	dB(A)	31.0	38.0	40.0		
	Fan speed 2	dB(A)	34.0	43.0	44.0		
	Fan speed 3	dB(A)	38.0	47.0			
	Fan speed 4	dB(A)	42.0	51.0	52.0		
	Fan speed 5	dB(A)	46.0	54.0	56.0		
	Fan speed 6	dB(A)	50.0	57.0	59.0		
	Low	dB(A)	34.0	43.0	44.0		
	Medium	dB(A)	42.0	46.0	51.0	52.0	
High	dB(A)	50.0	57.0	59.0			

2 Specifications

1 - 1 FWE-DATN5V3-R

Technical Specifications				FWE07DATN5V3-R		FWE08DATN5V3-R		FWE10DATN5V3-R		FWE11DATN5V3-R			
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	471		550		579		620	
			Fan speed 2		l/h	542		613		669		717	
			Fan speed 3		l/h	577		643		739		782	
			Fan speed 4		l/h	618		680		852		888	
			Fan speed 5		l/h	703		755		955		1,011	
			Fan speed 6		l/h	751		797		1,029		1,092	
			High		l/h	751		797		1,029		1,092	
			Low		l/h	542		613		669		717	
			Medium		l/h	618		755		852		888	
	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	15				17		19	
			Fan speed 2		kPa	20		18		21		24	
			Fan speed 3		kPa	22		20		25		28	
			Fan speed 4		kPa	26		22		32		35	
			Fan speed 5		kPa	33		26		39		44	
			Fan speed 6		kPa	37		29		45		50	
			Low		kPa	20		18		6		24	
			Medium		kPa	26				32		35	
			High		kPa	37		29		45		50	
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				FWE03DATN5V3-R	FWE04DATN5V3-R	FWE05DATN5V3-R	FWE06DATN5V3-R
Power supply	Type	230 / 1 / 50					
		1~					
		50					
		230					

Electrical Specifications				FWE07DATN5V3-R	FWE08DATN5V3-R	FWE10DATN5V3-R	FWE11DATN5V3-R
Power supply	Type	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 MODEL	POWER SUPPLY						INPUT(W) FAN ONLY
	Hz	VOLTAGE RANGE (V)	VOLTAGE LIMITS(V)	MCA	MFA	FLA	
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-DATN5V3(L-R-S-T)

COOLING 2 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
FWE03DT	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
FWE04DT	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
FWE05DT	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
FWE06DT	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
FWE07DT	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
FWE08DT	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
FWE10DT	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
FWE11DT	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

3D122206

4 Capacity tables

4 - 1 Cooling Capacity Tables

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

COOLING 2 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
FWE03DT	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
FWE04DT	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
FWE05DT	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
FWE06DT	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
FWE07DT	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
FWE08DT	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
FWE10DT	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
FWE11DT	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

3D122017

4 Capacity tables

4 - 1 Cooling Capacity Tables

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

COOLING 2 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
FWE03DT	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
FWE04DT	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
FWE05DT	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
FWE06DT	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
FWE07DT	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
FWE08DT	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
FWE10DT	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
FWE11DT	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

3D122019

4 Capacity tables

4 - 2 Heating Capacity Tables

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

HEATING 2 PIPE @ 0 ESP													
Air Temperature		DB:20°C						DB:22°C					
Water Temperature (Entering °C - Leaving °C)		ΔT=5						ΔT=5					
		50-45			45-40			50-45			45-40		
Model / Fan Speed		Ph kW	Wf l/h	Dp kPa	Ph kW	Wf l/h	Dp kPa	Ph kW	Wf l/h	Dp kPa	Ph kW	Wf l/h	Dp kPa
FWE03DT	1 (L)	1.66	285	12.9	1.34	230	8.5	1.54	264	11.1	1.21	209	7.0
	2	1.87	322	16.4	1.51	260	10.8	1.73	298	14.1	1.37	236	8.9
	3 (M)	2.09	360	20.3	1.69	290	13.4	1.93	333	17.5	1.53	263	11.0
	4	2.28	391	24.0	1.84	316	15.8	2.11	362	20.6	1.67	286	13.0
	5 (H)	2.47	426	28.3	2.00	344	18.6	2.29	394	24.3	1.81	312	15.4
FWE04DT	1	1.98	341	10.4	1.60	275	6.7	1.83	315	8.9	1.46	250	5.5
	2 (L)	2.20	379	12.9	1.78	306	8.3	2.04	350	11.0	1.61	277	6.8
	3 (M)	2.47	424	16.2	1.99	343	10.5	2.28	393	13.8	1.81	311	8.6
	4	2.73	470	19.9	2.21	379	12.9	2.53	435	17.0	2.00	344	10.6
	5 (H)	2.95	507	23.2	2.38	409	15.1	2.73	469	19.8	2.16	371	12.4
FWE05D	1	2.08	358	11.5	1.68	289	7.4	1.92	331	9.8	1.52	262	6.1
	2 (L)	2.45	422	16.0	1.98	341	10.4	2.27	391	13.7	1.80	309	8.5
	3 (M)	2.88	495	22.1	2.32	400	14.3	2.66	458	18.9	2.11	362	11.8
	4	3.36	578	30.2	2.71	467	19.6	3.11	535	25.8	2.46	423	16.1
	5 (H)	3.58	615	34.2	2.89	496	22.2	3.31	569	29.3	2.62	450	18.2
FWE06DT	1	2.63	453	7.4	2.12	366	4.9	2.44	419	6.4	1.93	332	4.0
	2	3.05	525	9.9	2.46	424	6.5	2.82	486	8.5	2.23	384	5.4
	3 (L)	3.64	626	14.1	2.94	505	9.2	3.37	579	12.1	2.66	458	7.6
	4 (M)	4.16	715	18.3	3.36	577	12.0	3.85	662	15.7	3.04	523	9.9
	5	4.58	788	22.2	3.70	636	14.5	4.24	729	19.0	3.36	577	12.0
	6 (H)	4.96	853	26.0	4.00	689	17.0	4.59	789	22.3	3.63	624	14.0
FWE07DT	1	3.39	584	22.9	2.74	471	15.3	3.14	540	19.7	2.48	427	12.7
	2 (L)	3.91	672	29.9	3.15	542	19.9	3.62	622	25.8	2.86	492	16.6
	3	4.15	714	33.6	3.35	577	22.4	3.84	661	29.0	3.04	523	18.6
	4 (M)	4.45	766	38.4	3.60	618	25.5	4.12	709	33.1	3.26	561	21.2
	5	5.07	871	49.1	4.09	703	32.6	4.69	806	42.3	3.71	638	27.1
	6 (H)	5.40	930	55.7	4.36	751	26.9	5.00	860	48.0	3.96	681	30.6
FWE08DT	1	3.96	681	21.8	3.20	550	15.1	3.67	630	19.1	2.90	499	12.9
	2 (L)	4.42	759	26.3	3.56	613	18.1	4.09	703	21.0	3.23	556	15.4
	3	4.63	797	28.7	3.74	643	19.8	4.29	737	25.0	3.39	583	16.7
	4	4.90	843	31.6	3.95	680	21.8	4.53	780	27.6	3.59	617	18.4
	5 (M)	5.44	936	38.1	4.39	755	26.1	5.04	866	33.2	3.98	685	22.0
	6 (H)	5.74	988	42.0	4.64	797	28.7	5.32	914	36.5	4.21	723	24.2
FWE10DT	1	4.17	718	23.9	3.37	579	16.5	3.86	664	20.9	3.06	526	14.0
	2 (L)	4.82	829	30.7	3.89	669	21.1	4.46	767	26.8	3.53	607	17.9
	3	5.33	916	36.7	4.30	739	25.1	4.93	847	31.9	3.90	670	21.2
	4 (M)	6.14	1056	47.3	4.96	852	32.3	5.69	977	41.2	4.50	773	27.2
	5	6.88	1183	58.1	5.55	955	39.5	6.37	1094	50.5	5.04	866	33.2
	6 (H)	7.41	1275	66.6	5.98	1029	45.1	6.86	1179	57.8	5.43	933	37.9
FWE11DT	1	4.46	768	26.8	3.60	620	18.5	4.13	710	23.4	3.27	562	15.7
	2 (L)	5.17	889	34.8	4.17	717	23.9	4.78	822	30.3	3.78	651	20.2
	3	5.64	969	40.6	4.55	782	27.8	5.22	897	35.3	4.13	710	23.4
	4 (M)	6.40	1101	51.0	5.17	888	24.7	5.92	1018	44.3	4.69	806	29.2
	5	7.28	1252	64.5	5.88	1011	43.7	6.74	1159	56.0	5.33	917	36.7
	6 (H)	7.87	1353	74.3	6.36	1092	50.3	7.28	1252	64.5	5.76	991	42.2

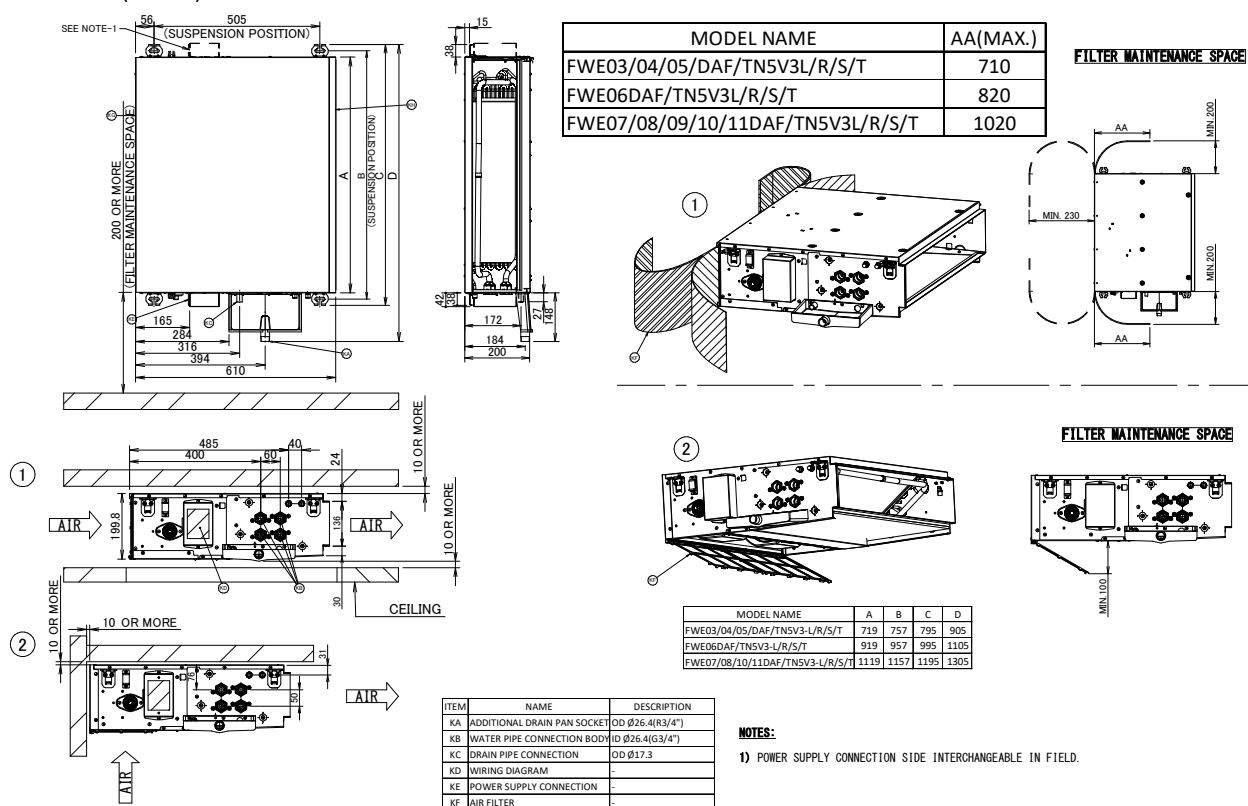
3D122208

5 Dimensional drawings

5 - 1 Dimensional Drawings

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

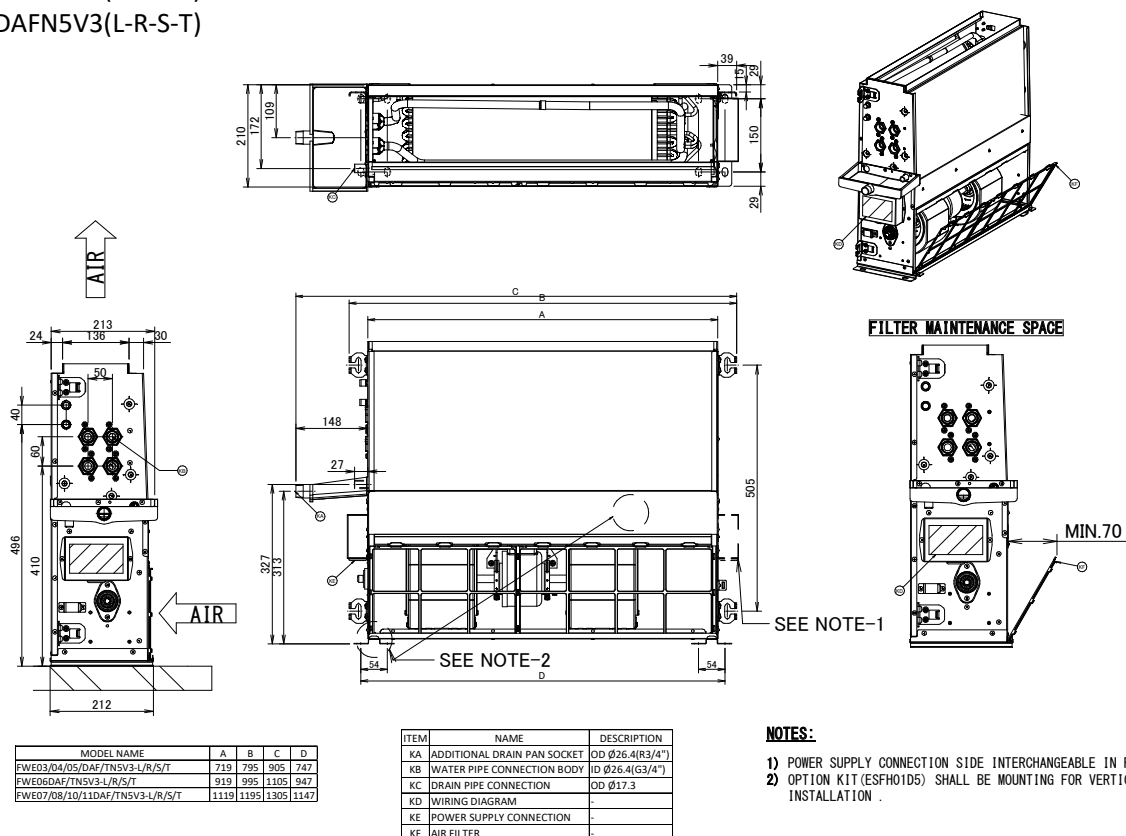
FWE-DATN5V3(L-R-S-T)



1D125336

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

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



1D125339

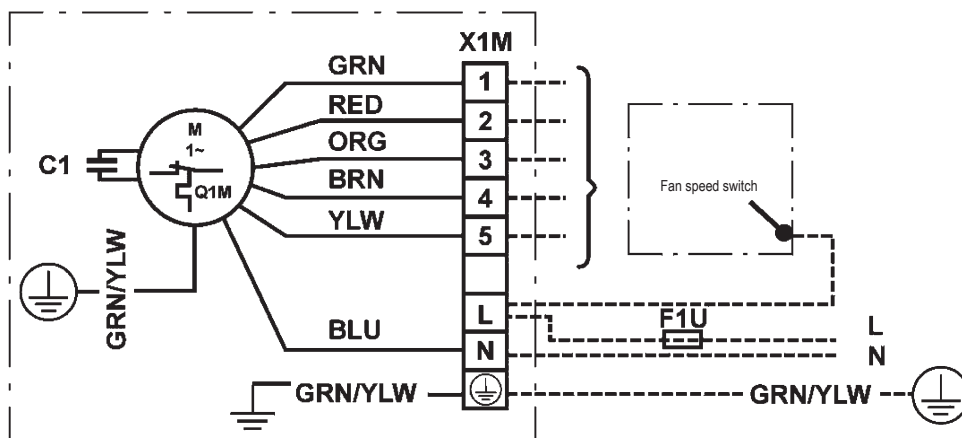
6 Wiring diagrams

6 - 1 Wiring Diagrams - Single Phase

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

Wiring diagram

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



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

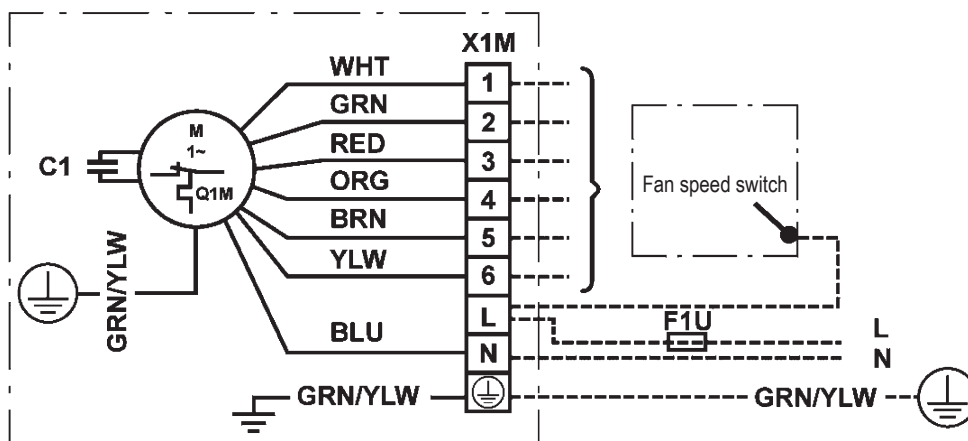
* For the power requirements, refer to the name plate.

4D121422-1

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

Wiring diagram

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



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

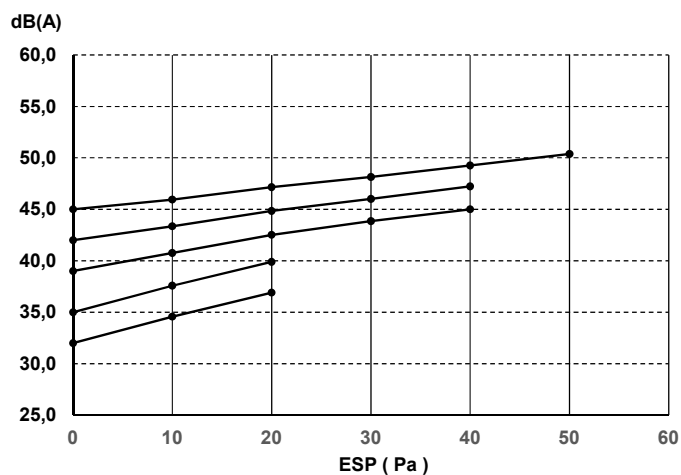
FWE03DAFN5V3(L-R-S-T)

FWE03DATN5V3(L-R-S-T)

Sound Power overall (dBA)

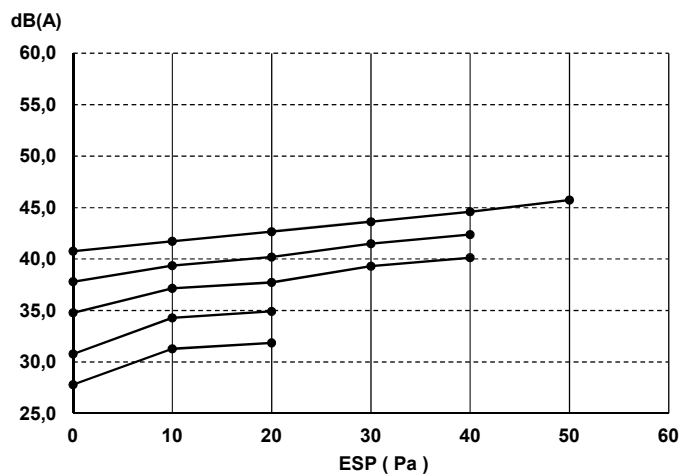
Whole casing

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				



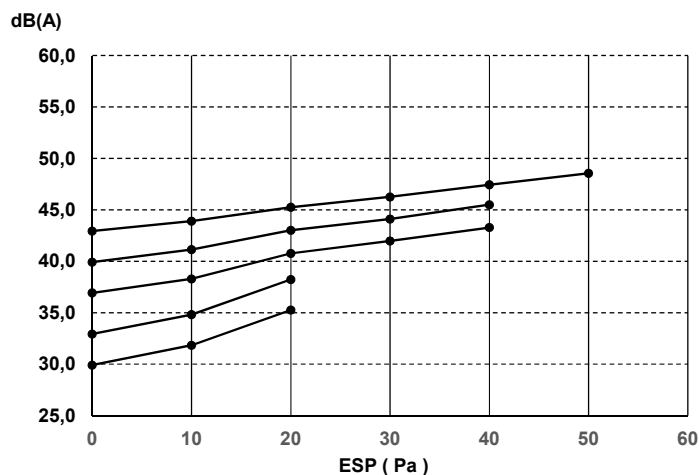
Discharge

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

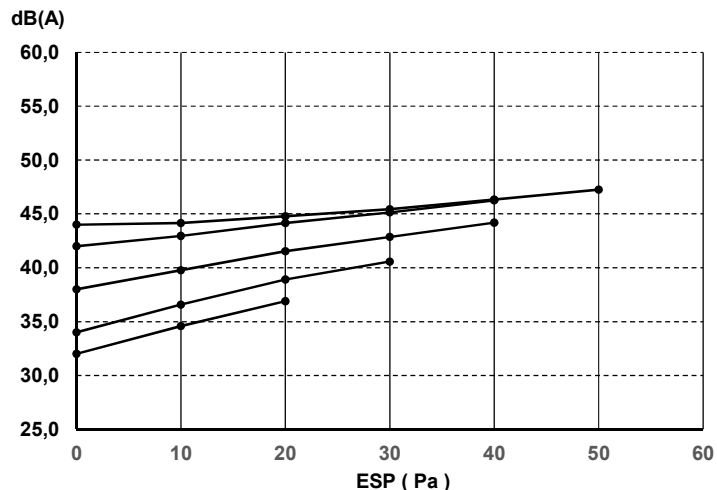
FWE04DAFN5V3(L-R-S-T)

FWE04DATN5V3(L-R-S-T)

Sound Power overall (dBA)

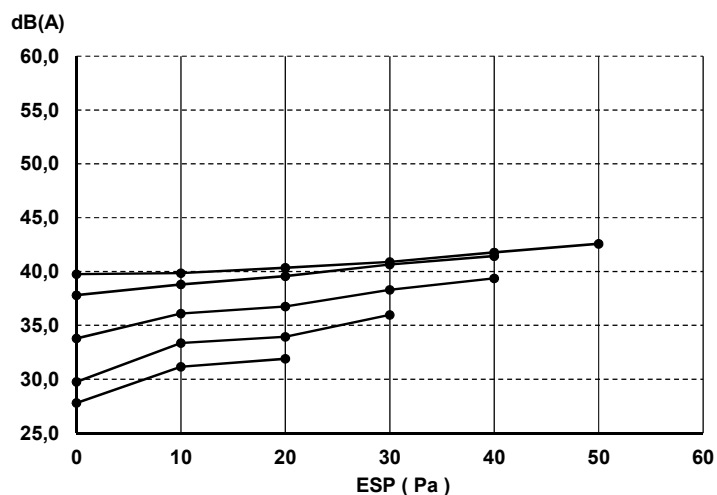
Whole casing

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				



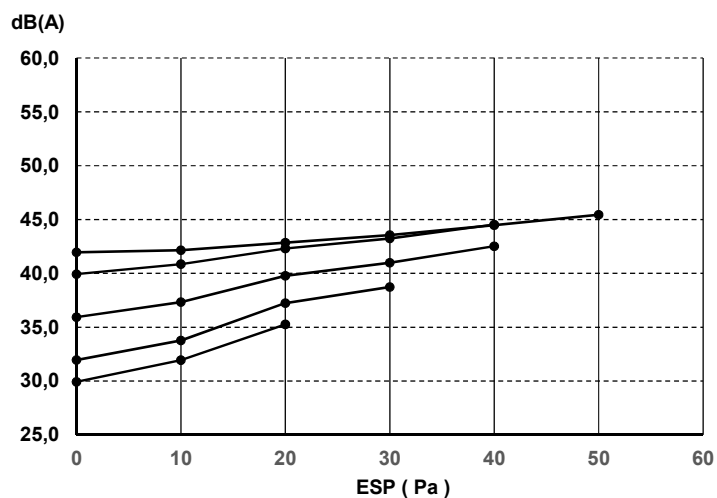
Discharge

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

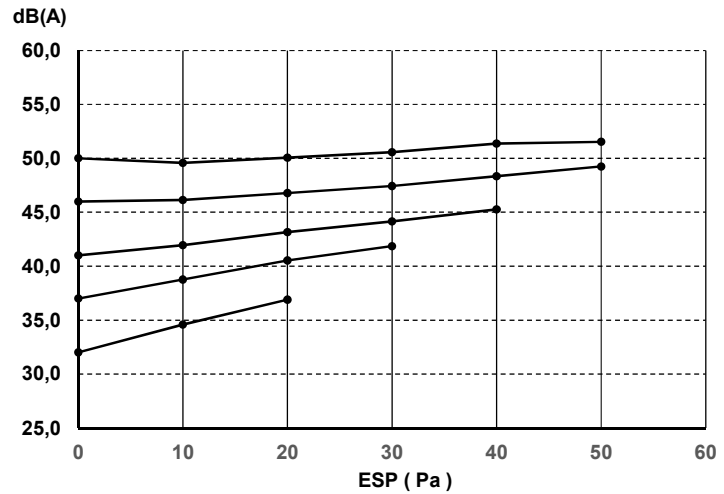
FWE05DAFN5V3(L-R-S-T)

FWE05DATN5V3(L-R-S-T)

Sound Power overall (dBA)

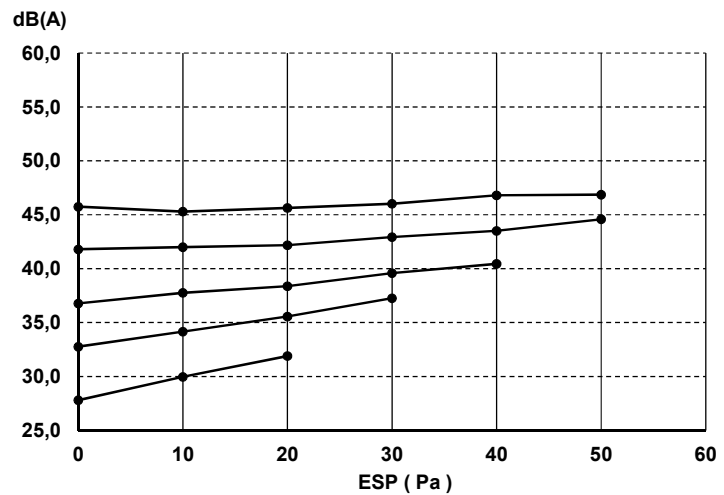
Whole casing

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			



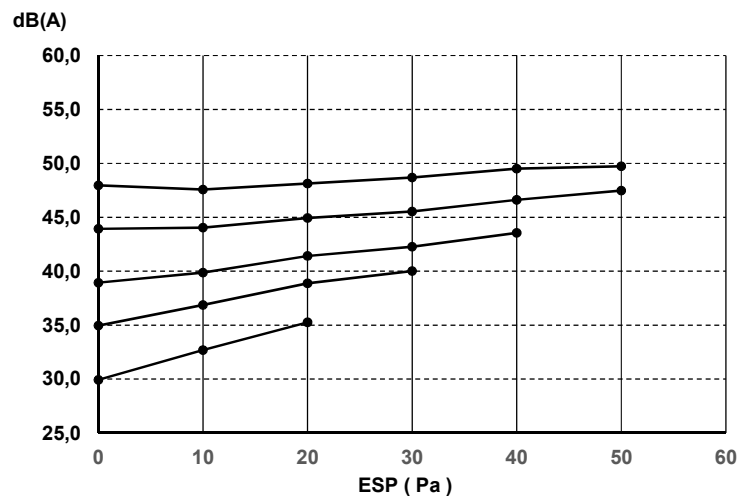
Discharge

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

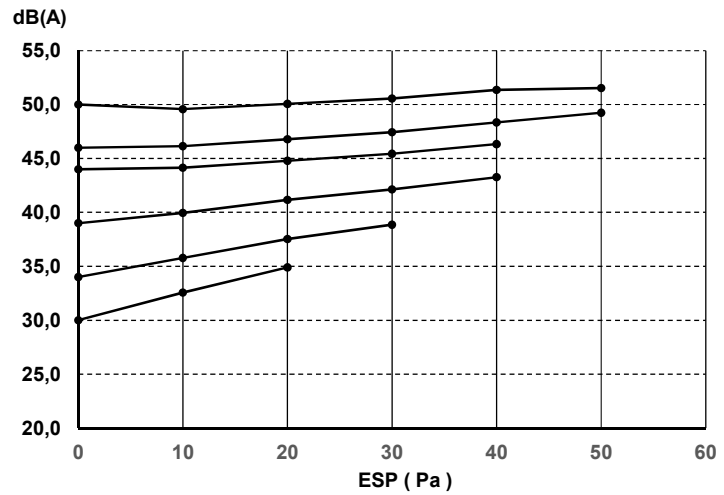
FWE06DAFN5V3(L-R-S-T)

FWE06DATN5V3(L-R-S-T)

Sound Power overall (dBA)

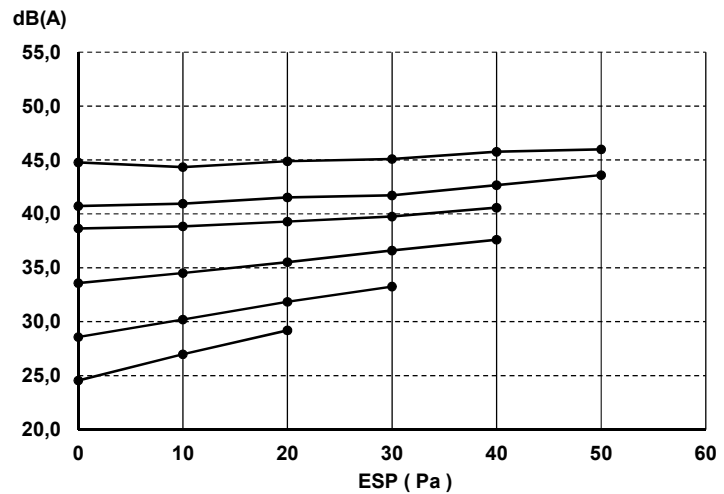
Whole casing

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				



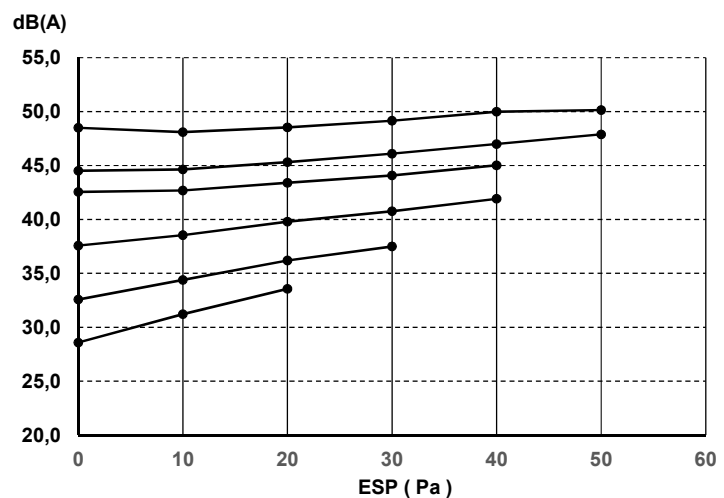
Discharge

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

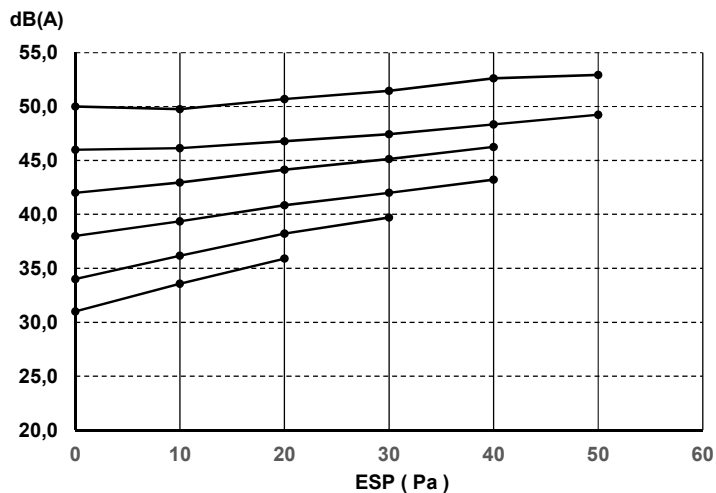
FWE07DAFN5V3(L-R-S-T)

FWE07DATN5V3(L-R-S-T)

Sound Power overall (dBA)

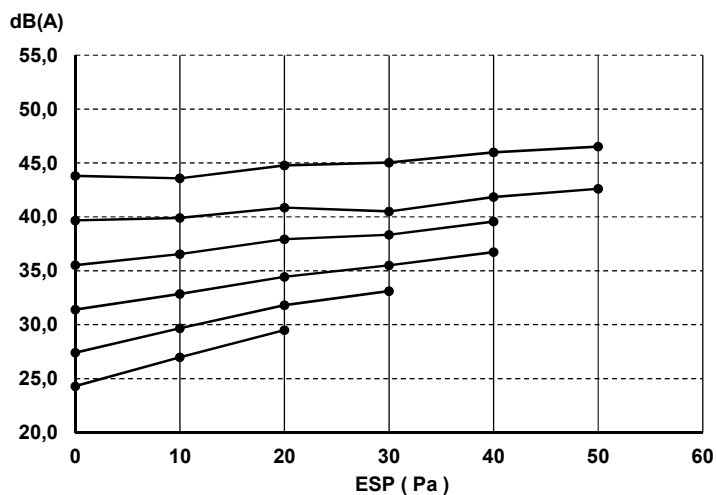
Whole casing

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				



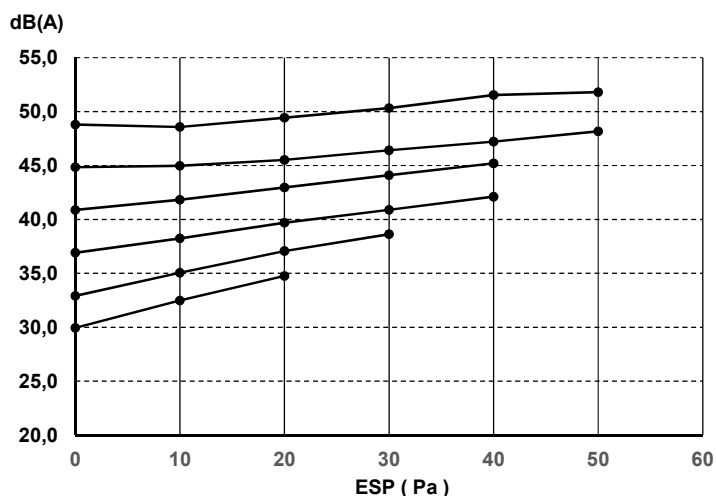
Discharge

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

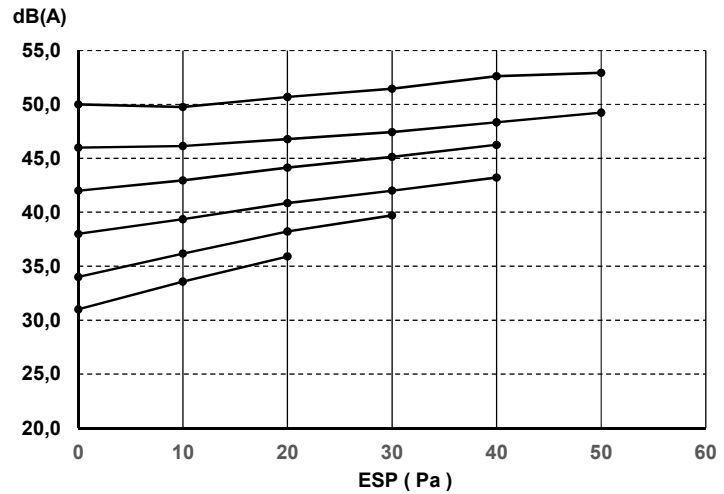
FWE08DAFN5V3(L-R-S-T)

FWE08DATN5V3(L-R-S-T)

Sound Power overall (dBA)

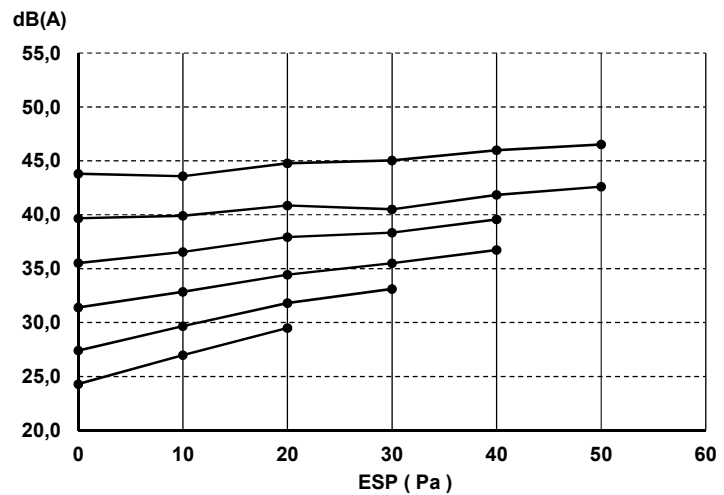
Whole casing

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				



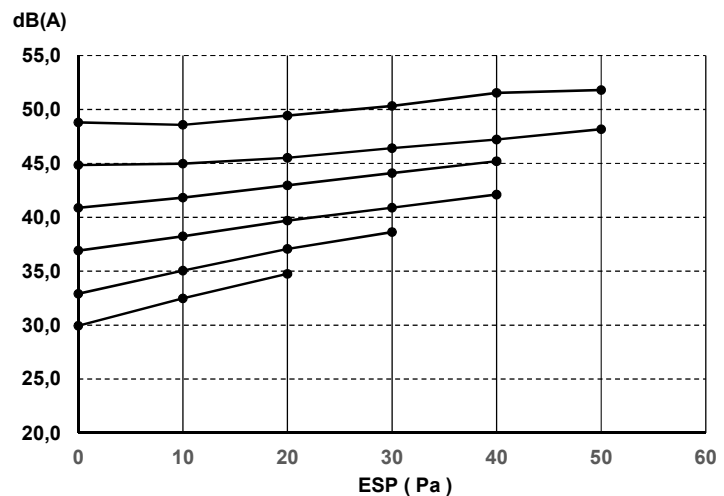
Discharge

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

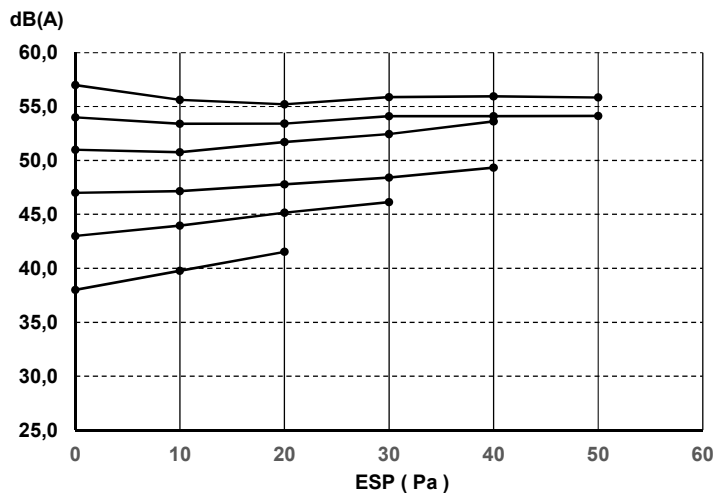
FWE10DAFN5V3(L-R-S-T)

FWE10DATN5V3(L-R-S-T)

Sound Power overall (dBA)

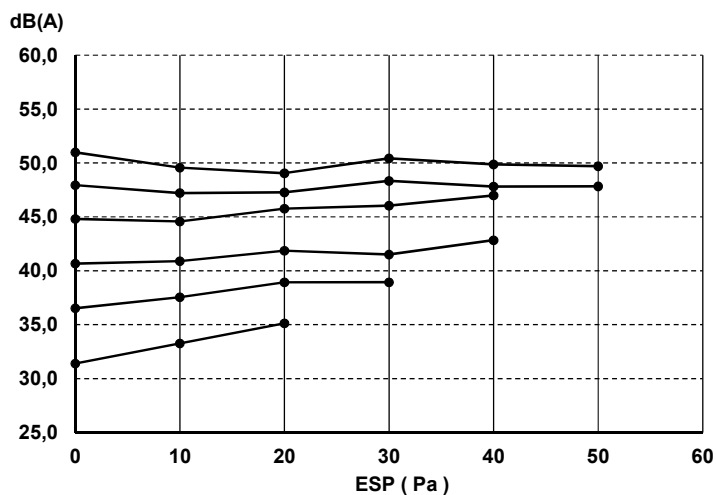
Whole casing

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				



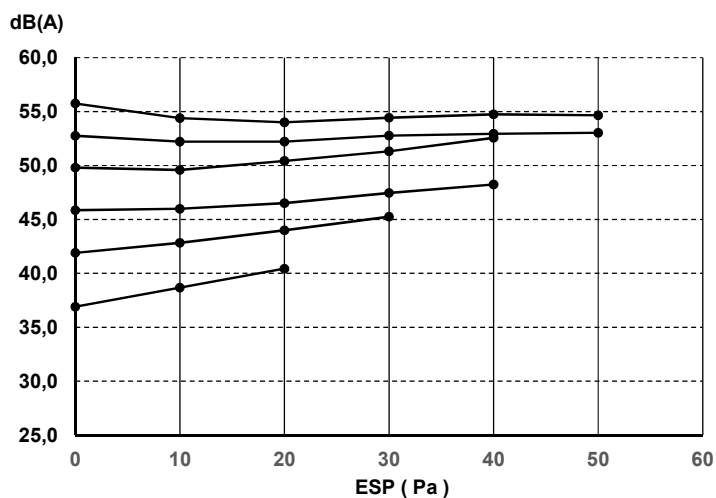
Discharge

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

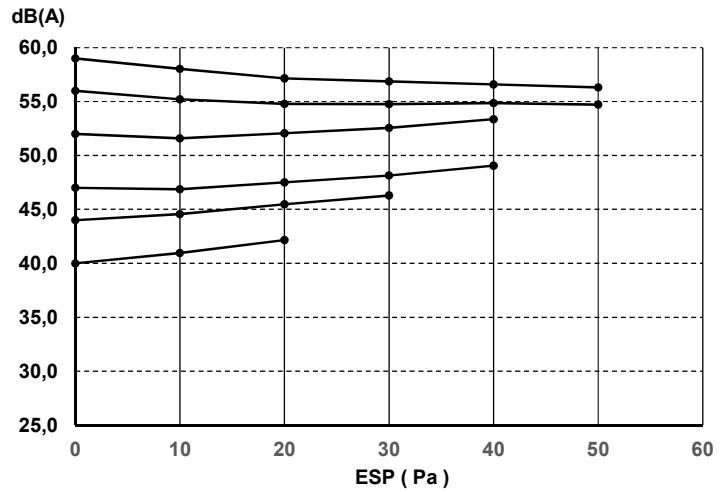
FWE11DAFN5V3(L-R-S-T)

FWE11DATN5V3(L-R-S-T)

Sound Power overall (dBA)

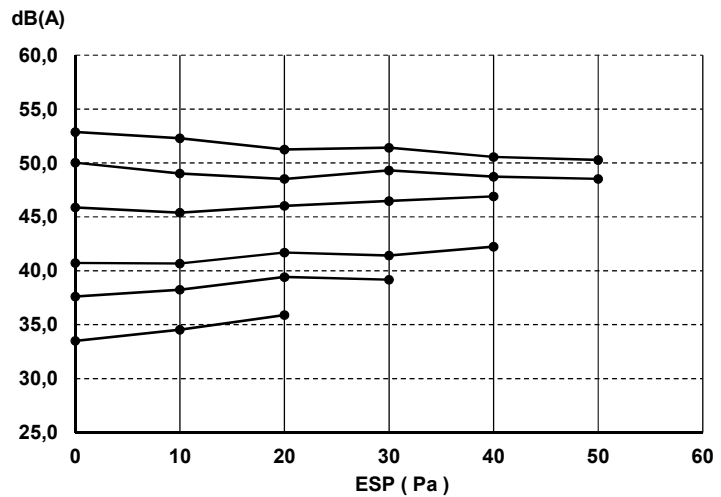
Whole casing

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				



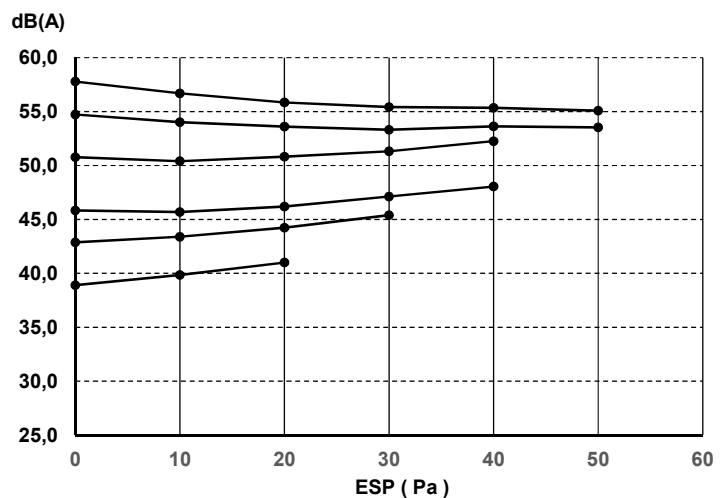
Discharge

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				

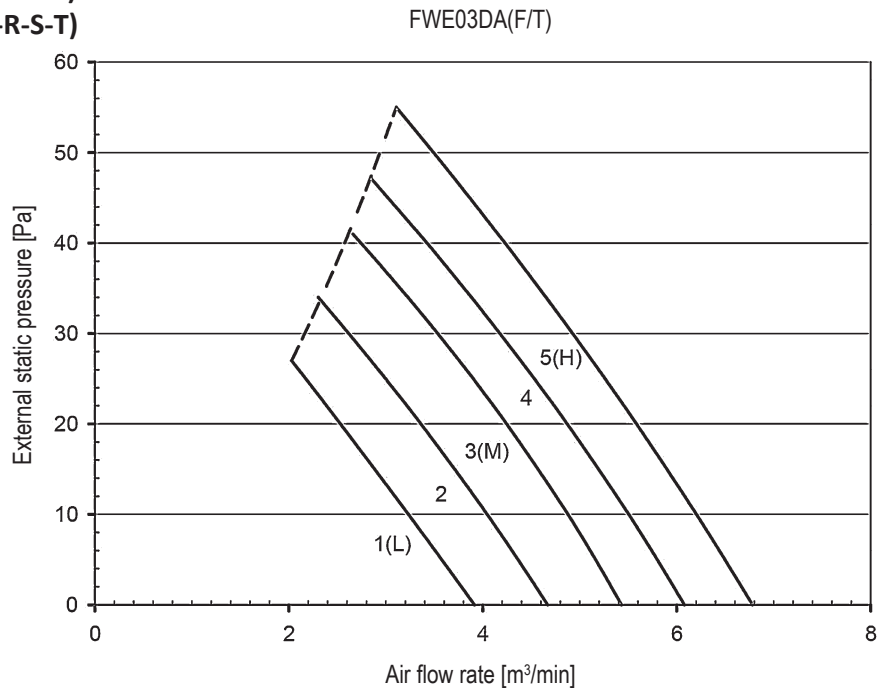


3D122205A

8 Fan characteristics

8 - 1 Fan Characteristics

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



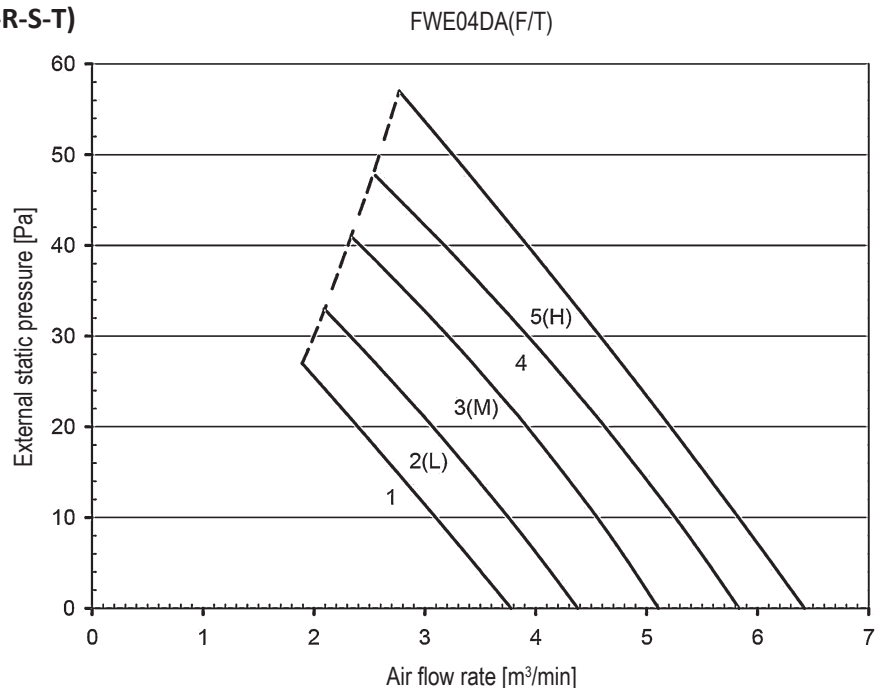
8

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)



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

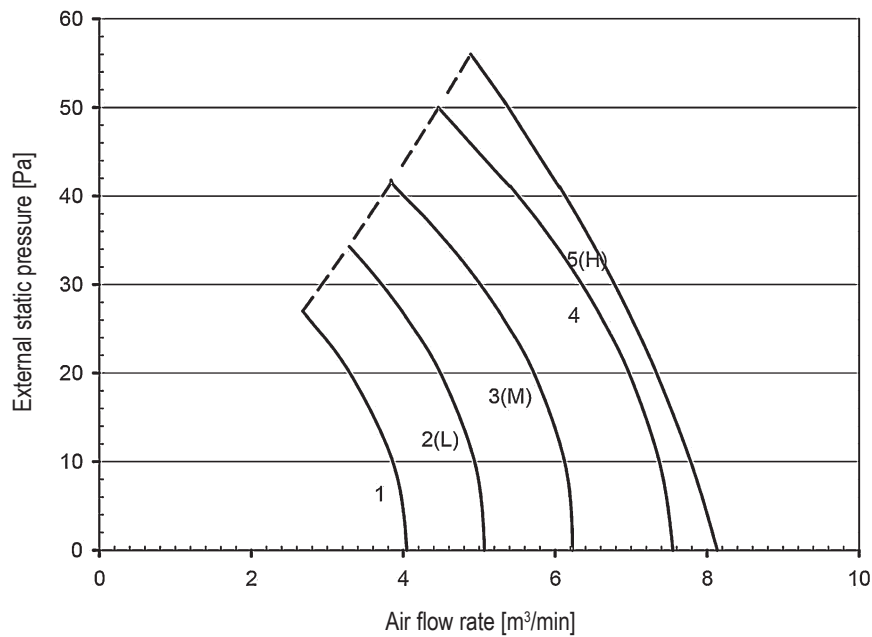
8 - 1 Fan Characteristics

8

FWE05DAFN5V3(L-R-S-T)

FWE05DATN5V3(L-R-S-T)

FWE05DA(F/T)



NOTES

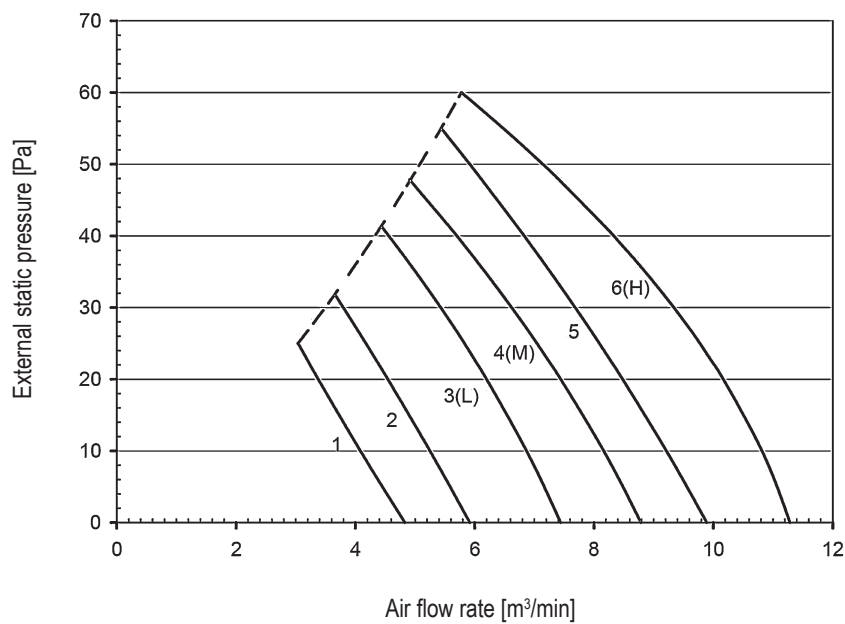
1. The fan characteristics shown are in "fan only" mode.
2. Air temperature condition: 20°C DB, 15°C WB (RH 59%).
3. Power supply condition: 50Hz 230V.

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

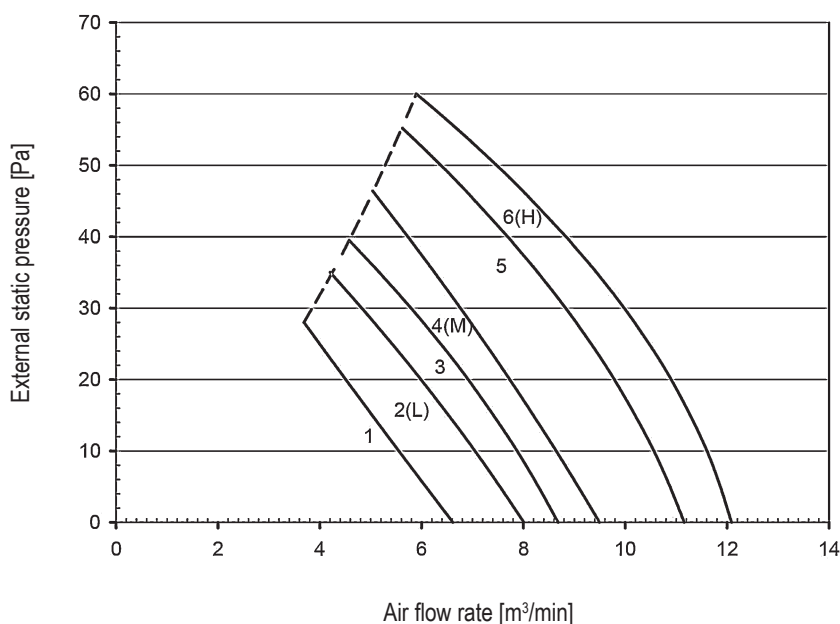
8 Fan characteristics

8 - 1 Fan Characteristics

FWE07DAFN5V3(L-R-S-T)

FWE07DATN5V3(L-R-S-T)

FWE07DA(F/T)



NOTES

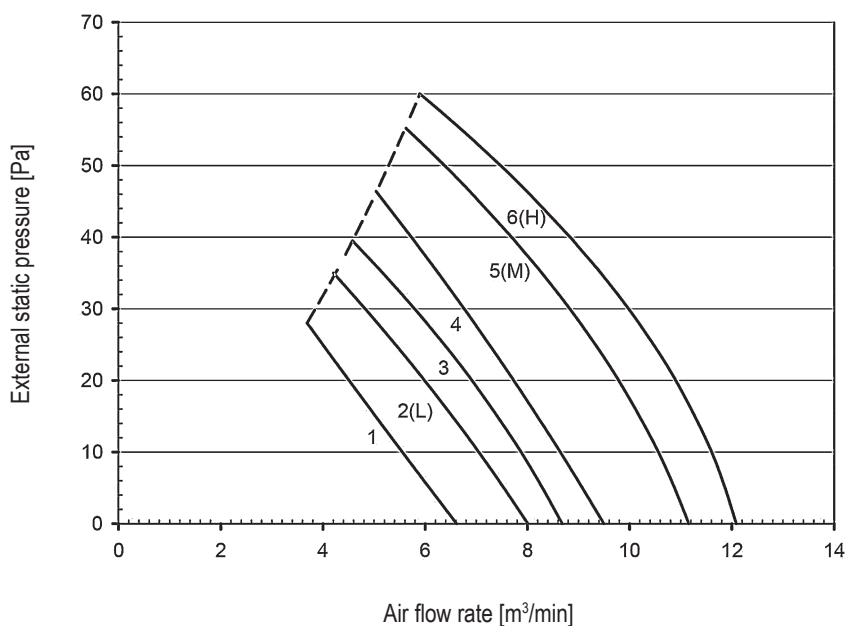
1. The fan characteristics shown are in "fan only" mode.
2. Air temperature condition: 20°C DB, 15°C WB (RH 59%).
3. Power supply condition: 50Hz 230V.

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

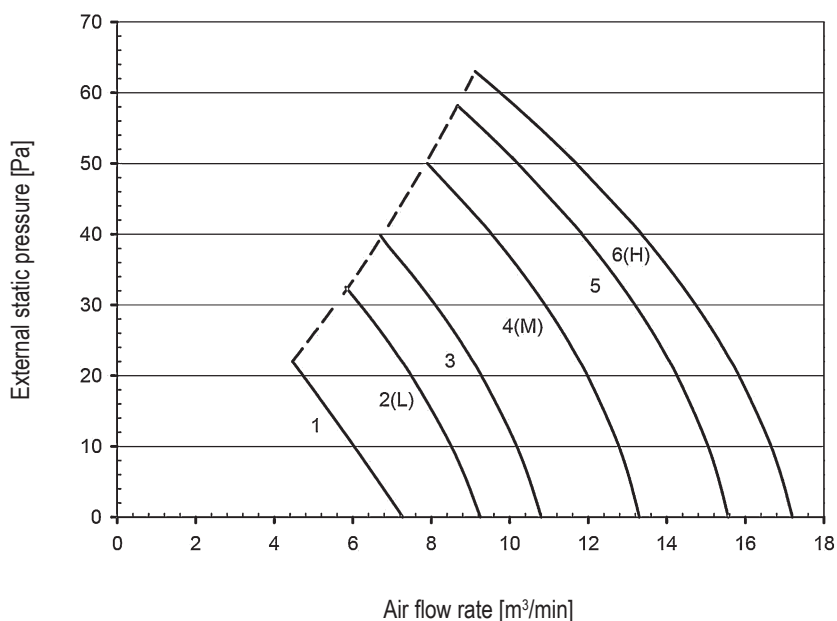
8 Fan characteristics

8 - 1 Fan Characteristics

8

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

FWE10DA(F/T)



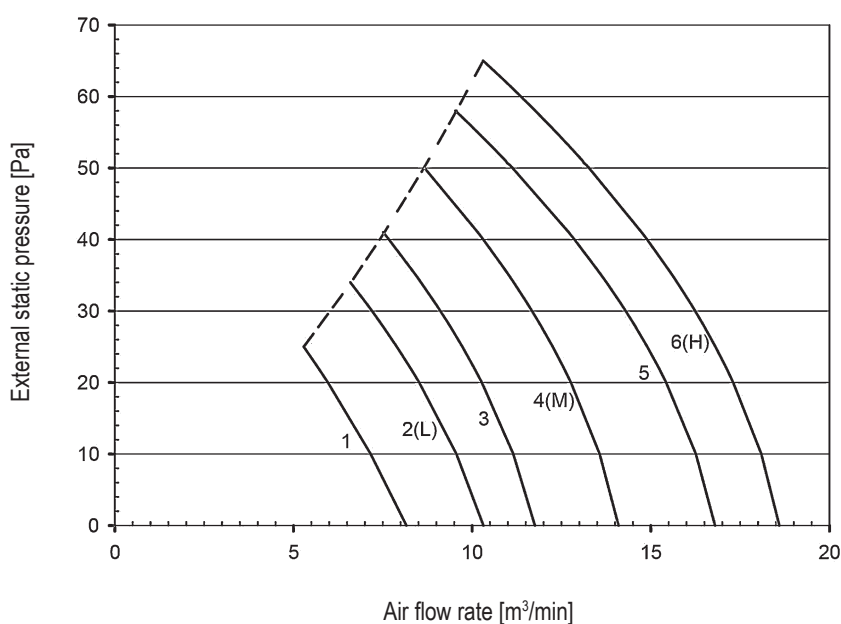
NOTES

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)

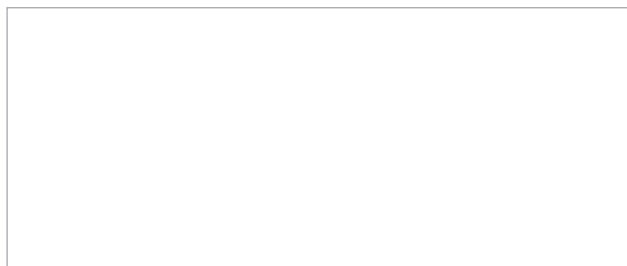
FWE11DA(F/T)



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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