

# Concealed ceiling unit with low ESP Technical Data FWE-FT / FWE-FF

FWE04FATN5V1--  
FWE05FATN5V1--  
FWE06FATN5V1--  
FWE08FATN5V1--  
FWE10FATN5V1--  
FWE12FATN5V1--  
FWE14FATN5V1--  
FWE16FATN5V1--  
FWE20FATN5V1--  
FWE24FATN5V1--  
FWE04FAFN5V1--  
FWE05FAFN5V1--  
FWE06FAFN5V1--  
FWE08FAFN5V1--  
FWE10FAFN5V1--  
FWE12FAFN5V1--  
FWE14FAFN5V1--  
FWE16FAFN5V1--  
FWE20FAFN5V1--  
FWE24FAFN5V1--





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# FWE-FT / FWE-FF

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# 1 Features

1 - 1 FWE-FT, FWE-FF

## AC fan motor unit for horizontal concealed mounting

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- › Available static pressure up to 80Pa
- › Standard left and right side water connection
- › Additional drain pan as standard
- › G2 plastic frame filter
- › Open protocol control
- › Factory mounted valve available as option
- › Reduced sound noise thanks to the thinner heat exchanger



## 2 Specifications

### 2 - 1 Specifications

Technical specifications				FWE04FT	FWE05FT	FWE06FT	FWE08FT	FWE10FT		
Cooling capacity (standard conditions)	Latent capacity	High	kW	0.37 (1)	0.62 (1)	0.76 (1)	0.89 (1)	1.00 (1)		
			2-pipe							
	Sensible capacity	2-pipe	Fan speed 1	kW	0.94 (1)	0.92 (1)	1.35 (1)	1.62 (1)	1.70 (1)	
			Fan speed 2	kW	1.31 (1)	1.41 (1)	1.83 (1)	2.32 (1)	2.62 (1)	
			Fan speed 3	kW	1.56 (1)	1.74 (1)	2.27 (1)	3.08 (1)	3.38 (1)	
			Fan speed 4	kW	1.81 (1)	2.08 (1)	2.41 (1)	3.58 (1)	3.76 (1)	
			Fan speed 5	kW	-	-	2.68 (1)	-	4.13 (1)	
		Low	Low	kW	1.31 (1)	1.41 (1)	1.83 (1)	2.32 (1)	2.62 (1)	
			Medium	kW	1.56 (1)	1.74 (1)	2.41 (1)	3.08 (1)	3.38 (1)	
			High	kW	1.81 (1)	2.08 (1)	2.68 (1)	3.58 (1)	3.76 (1)	
			Total capacity 2-pipe	Fan speed 1	kW	1.18 (1)	1.23 (1)	1.80 (1)	2.13 (1)	2.27 (1)
				Fan speed 2	kW	1.64 (1)	1.83 (1)	2.38 (1)	3.02 (1)	3.44 (1)
	Fan speed 3	kW		1.92 (1)	2.25 (1)	2.94 (1)	3.94 (1)	4.33 (1)		
	Fan speed 4	kW		2.18 (1)	2.70 (1)	3.12 (1)	4.47 (1)	4.76 (1)		
	Fan speed 5	kW		-	-	3.44 (1)	-	5.10 (1)		
	Heating capacity (standard conditions)	Capacity 2-pipe	Fan speed 1	kW	1.46 (2)	1.63 (2)	2.20 (2)	2.64 (2)	3.28 (2)	
			Fan speed 2	kW	1.94 (2)	2.23 (2)	2.82 (2)	3.53 (2)	4.33 (2)	
			Fan speed 3	kW	2.28 (2)	2.68 (2)	3.48 (2)	4.70 (2)	5.31 (2)	
			Fan speed 4	kW	2.66 (2)	3.19 (2)	3.71 (2)	5.70 (2)	5.94 (2)	
			Fan speed 5	kW	-	-	4.16 (2)	-	6.64 (2)	
Low		Low	kW	1.94 (2)	2.23 (2)	2.82 (2)	3.53 (2)	4.33 (2)		
		Medium	kW	2.28 (2)	2.68 (2)	3.71 (2)	4.70 (2)	5.31 (2)		
		High	kW	2.66 (2)	3.19 (2)	4.16 (2)	5.70 (2)	5.94 (2)		
		Power input	Fan speed 1	kW	0.04 (3)		0.06 (3)	0.05 (3)	0.07 (3)	
			Fan speed 2	kW	0.05 (3)		0.06 (3)		0.08 (3)	
Fan speed 3	kW		0.05 (3)		0.07 (3)	0.08 (3)	0.09 (3)			
Fan speed 4	kW		0.06 (3)		0.08 (3)		0.10 (3)			
Fan speed 5	kW		-		0.08 (3)	-	0.12 (3)			
Low	kW		0.05 (3)		0.06 (3)		0.08 (3)			
Med.	kW		0.05 (3)		0.08 (3)		0.09 (3)			
High	kW		0.060 (3)		0.080 (3)		0.100 (3)			
Dimensions	Unit		Height	mm			253			
			Width	mm				797	1,100	
		Depth	mm			570				
Dimensions	Packed unit	Height	mm			270				
		Width	mm			890	1,215			
		Depth	mm			675				
Weight	Unit	kg	17.0		18.0		24.0			
	Packed unit	kg	20		21		27	28		
Casing	Colour	Metal								
	Material	Galvanised steel								
Heat exchanger	Type	Seamless copper tubing, mechanically bonded to rippled and louvred aluminum fins.								
	Length	mm	465		770					
	Rows	Quantity	3							
	Fin	Type	Multi louver fin							
	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					
Fan	Type	Sirocco fan								
	Quantity	1		2						
	Air flow rate	Fan speed 1	m <sup>3</sup> /h	216 (3)		301 (3)	325 (3)	436 (3)		
		Fan speed 2	m <sup>3</sup> /h	307 (3)		400 (3)	467 (3)	620 (3)		
		Fan speed 3	m <sup>3</sup> /h	379 (3)		514 (3)	668 (3)	805 (3)		
		Fan speed 4	m <sup>3</sup> /h	465 (3)		555 (3)	854 (3)	931 (3)		
		Fan speed 5	m <sup>3</sup> /h	-		638 (3)	-	1,082 (3)		
		Low	m <sup>3</sup> /h	307 (3)		400 (3)	467 (3)	620 (3)		
		Medium	m <sup>3</sup> /h	379 (3)		555 (3)	668 (3)	805 (3)		
		High	m <sup>3</sup> /h	465 (3)		638 (3)	854 (3)	931 (3)		
	Available static pressure	Fan speed 1	Pa	30						
		Fan speed 2	Pa	40	45					
		Fan speed 3	Pa	60		65				
		Fan speed 4	Pa	80	70	80	70			
		Fan speed 5	Pa	-	80	-	80			
		Low	Pa	40	45					
		Medium	Pa	60	70	60	65			
High		Pa	80		70					

## 2 Specifications

### 2 - 1 Specifications

Technical specifications				FWE04FT	FWE05FT	FWE06FT	FWE08FT	FWE10FT		
Fan motor	Model			YF110-13-4D9		YF110-32-4D9	YF110-27-4S17	YF110-48-4S29		
	Type			AC Motor						
Total sound power level	Fan speed 1	dB(A)	31.0 (4)		40.0 (4)		34.0 (4)	42.0 (4)		
Total sound power level	Fan speed 2	dB(A)	39.0 (4)	40.0 (4)	47.0 (4)		40.0 (4)	48.0 (4)		
	Fan speed 3	dB(A)	46.0 (4)	47.0 (4)	54.0 (4)		49.0 (4)	54.0 (4)		
	Fan speed 4	dB(A)	52.0 (4)		56.0 (4)		54.0 (4)	57.0 (4)		
	Fan speed 5	dB(A)	-		61.0 (4)		-	61.0 (4)		
	Low	dB(A)	39.0 (4)	40.0 (4)	47.0 (4)		40.0 (4)	48.0 (4)		
Sound pressure level	Medium	dB(A)	46.0 (4)	47.0 (4)	56.0 (4)		49.0 (4)	54.0 (4)		
	High	dB(A)	52.0 (4)		61.0 (4)		54.0 (4)	57.0 (4)		
	Fan speed 1	dB(A)	20.0 (5)		29.0 (5)		23.0 (5)	31.0 (5)		
	Fan speed 2	dB(A)	28.0 (5)	29.0 (5)	36.0 (5)		29.0 (5)	37.0 (5)		
	Fan speed 3	dB(A)	35.0 (5)	36.0 (5)	43.0 (5)		38.0 (5)	43.0 (5)		
Water flow	Cooling	Fan speed 4	dB(A)	41.0 (5)		45.0 (5)		43.0 (5)	46.0 (5)	
		Fan speed 5	dB(A)	-		50.0 (5)		-	50.0 (5)	
		Low	dB(A)	28.0 (5)	29.0 (5)	36.0 (5)		29.0 (5)	37.0 (5)	
		Medium	dB(A)	35.0 (5)	36.0 (5)	45.0 (5)		38.0 (5)	43.0 (5)	
		High	dB(A)	41.0 (5)		50.0 (5)		43.0 (5)	46.0 (5)	
Water flow	Cooling	Fan speed 1	l/h	203 (1)	212 (1)	309 (1)	366 (1)	390 (1)		
		Fan speed 2	l/h	281 (1)	315 (1)	409 (1)	519 (1)	592 (1)		
		Fan speed 3	l/h	331 (1)	387 (1)	506 (1)	678 (1)	744 (1)		
		Fan speed 4	l/h	376 (1)	465 (1)	537 (1)	769 (1)	819 (1)		
		Fan speed 5	l/h	-		591 (1)	-	877 (1)		
		Low	l/h	281 (1)	315 (1)	409 (1)	519 (1)	592 (1)		
		Medium	l/h	331 (1)	387 (1)	537 (1)	678 (1)	744 (1)		
		High	l/h	376 (1)	465 (1)	591 (1)	769 (1)	819 (1)		
		Heating	Fan speed 1	l/h	251 (2)	281 (2)	378 (2)	453 (2)	564 (2)	
			Fan speed 2	l/h	334 (2)	383 (2)	484 (2)	607 (2)	744 (2)	
	Fan speed 3		l/h	393 (2)	461 (2)	599 (2)	808 (2)	913 (2)		
	Fan speed 4		l/h	457 (2)	549 (2)	639 (2)	980 (2)	1,021 (2)		
	Fan speed 5		l/h	-		716 (2)	-	1,142 (2)		
	High		l/h	457 (2)	549 (2)	716 (2)	980 (2)	1,021 (2)		
	Low		l/h	334 (2)	383 (2)	484 (2)	607 (2)	744 (2)		
	Medium		l/h	393 (2)	461 (2)	599 (2)	808 (2)	913 (2)		
	Water pressure drop		Cooling	Fan speed 1	kPa	7 (1)	4 (1)	6 (1)	5 (1)	6 (1)
				Fan speed 2	kPa	11 (1)	6 (1)	9 (1)		11 (1)
		Fan speed 3		kPa	14 (1)	9 (1)	13 (1)	15 (1)	16 (1)	
		Fan speed 4		kPa	17 (1)	11 (1)	14 (1)	19 (1)	18 (1)	
Fan speed 5		kPa		-		17 (1)	-	20 (1)		
Low		kPa	11 (1)	6 (1)	9 (1)		11 (1)			
Heating		Medium	kPa	14 (1)	9 (1)	14 (1)	15 (1)	16 (1)		
		High	kPa	17 (1)	11 (1)	17 (1)	19 (1)	18 (1)		
		Fan speed 1	kPa	7 (2)	5 (2)	8 (2)	5 (2)	7 (2)		
		Fan speed 2	kPa	11 (2)	8 (2)	11 (2)	8 (2)	11 (2)		
	Fan speed 3	kPa	15 (2)	10 (2)	15 (2)	13 (2)	17 (2)			
Water pressure drop	Fan speed 4	kPa	19 (2)	13 (2)	16 (2)	19 (2)	21 (2)			
	Fan speed 5	kPa	-		19 (2)	-	26 (2)			
	Low	kPa	11 (2)	8 (2)	11 (2)	8 (2)	11 (2)			
	Medium	kPa	15 (2)	10 (2)	16 (2)	13 (2)	17 (2)			
	High	kPa	19 (2)	13 (2)	19 (2)		21 (2)			
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" BSP (female thread)							
		Outlet	3/4" BSP (female thread)							
	Drain	OD	mm 16.7							

## 2 Specifications

### 2 - 1 Specifications

Technical specifications				FWE12FT	FWE14FT	FWE16FT	FWE20FT	FWE24FT		
Cooling capacity (standard conditions)	Latent capacity	High	kW	1.06 (1)	1.44 (1)	1.35 (1)	2.71 (1)	3.00 (1)		
			2-pipe							
	Sensible capacity	2-pipe	Fan speed 1	kW	1.99 (1)	2.97 (1)	3.07 (1)	3.78 (1)	4.29 (1)	
			Fan speed 2	kW	2.88 (1)	4.08 (1)	4.25 (1)	4.85 (1)	5.50 (1)	
			Fan speed 3	kW	3.56 (1)	5.13 (1)	5.27 (1)	6.42 (1)	6.97 (1)	
			Fan speed 4	kW	3.96 (1)	5.68 (1)	5.79 (1)	7.75 (1)	7.91 (1)	
			Fan speed 5	kW	4.32 (1)	6.03 (1)	6.21 (1)	-	8.98 (1)	
		2-pipe	Low	kW	2.88 (1)	4.08 (1)	4.25 (1)	4.85 (1)	5.50 (1)	
			Medium	kW	3.96 (1)	5.13 (1)	5.79 (1)	6.42 (1)	7.91 (1)	
			High	kW	4.32 (1)	5.68 (1)	6.21 (1)	7.75 (1)	8.98 (1)	
			Total capacity	Fan speed 1	kW	2.39 (1)	4.10 (1)	4.20 (1)	5.55 (1)	6.29 (1)
			Fan speed 2	kW	3.56 (1)	5.64 (1)	5.74 (1)	6.89 (1)	7.83 (1)	
	Total capacity	2-pipe	Fan speed 3	kW	4.47 (1)	6.73 (1)	6.83 (1)	8.76 (1)	9.54 (1)	
			Fan speed 4	kW	4.95 (1)	7.12 (1)	7.22 (1)	10.46 (1)	10.69 (1)	
			Fan speed 5	kW	5.38 (1)	7.46 (1)	7.56 (1)	-	11.97 (1)	
			Low	kW	3.56 (1)	5.64 (1)	5.74 (1)	6.89 (1)	7.83 (1)	
			Medium	kW	4.95 (1)	6.73 (1)	7.22 (1)	8.76 (1)	10.69 (1)	
		2-pipe	High	kW	5.38 (1)	7.12 (1)	7.56 (1)	10.46 (1)	11.97 (1)	
			Fan speed 1	kW	3.39 (2)	4.95 (2)	5.05 (2)	5.83 (2)	6.64 (2)	
			Fan speed 2	kW	4.44 (2)	6.34 (2)	6.43 (2)	7.38 (2)	8.34 (2)	
Fan speed 3			kW	5.42 (2)	7.65 (2)	7.74 (2)	9.31 (2)	10.01 (2)		
Fan speed 4			kW	6.05 (2)	8.29 (2)	8.39 (2)	10.85 (2)	11.03 (2)		
Heating capacity (standard conditions)	Capacity	2-pipe	Fan speed 5	kW	6.75 (2)	9.20 (2)	9.30 (2)	-	12.08 (2)	
			Low	kW	4.44 (2)	6.34 (2)	6.43 (2)	7.38 (2)	8.34 (2)	
			Medium	kW	6.05 (2)	7.65 (2)	8.39 (2)	9.31 (2)	11.03 (2)	
			High	kW	6.75 (2)	8.29 (2)	9.30 (2)	10.85 (2)	12.08 (2)	
Power input			Fan speed 1	kW	0.07 (3)	0.13 (3)	0.12 (3)	0.14 (3)		
			Fan speed 2	kW	0.08 (3)	0.15 (3)	0.14 (3)	0.16 (3)		
			Fan speed 3	kW	0.09 (3)	0.17 (3)	0.17 (3)	0.19 (3)		
			Fan speed 4	kW	0.10 (3)	0.18 (3)	0.19 (3)	0.21 (3)		
			Fan speed 5	kW	0.12 (3)	0.19 (3)	-	0.23 (3)		
			Low	kW	0.08 (3)	0.15 (3)	0.14 (3)	0.16 (3)		
			Med.	kW	0.10 (3)	0.17 (3)	0.18 (3)	0.17 (3)		
			High	kW	0.120 (3)	0.180 (3)	0.190 (3)	0.230 (3)		
			Dimensions	Unit	Height	mm	253			
Width	mm	1,100			1,410	1,710				
Depth	mm	570								
Dimensions	Packed unit	Height	mm	270						
		Width	mm	1,215	1,530	1,830				
		Depth	mm	675						
Weight	Unit	kg	24.0	35.0	43.0					
	Packed unit	kg	28	38	47					
Casing	Colour	Metal								
	Material	Galvanised steel								
Heat exchanger	Type	Seamless copper tubing, mechanically bonded to rippled and louvred aluminum fins.								
	Length	mm	770	1,080	1,380					
	Rows	Quantity	3					4		
	Fin	Type	Multi louver fin							
	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	4	5					
Fan	Type	Quantity	Sirocco fan							
			2	3	4					
	Air flow rate	Fan speed 1	m <sup>3</sup> /h	436 (3)	730 (3)	714 (3)	855 (3)			
			Fan speed 2	m <sup>3</sup> /h	620 (3)	1,021 (3)	1,001 (3)	1,184 (3)		
			Fan speed 3	m <sup>3</sup> /h	805 (3)	1,314 (3)	1,382 (3)	1,528 (3)		
			Fan speed 4	m <sup>3</sup> /h	931 (3)	1,467 (3)	1,707 (3)	1,751 (3)		
			Fan speed 5	m <sup>3</sup> /h	1,082 (3)	1,692 (3)	-	1,990 (3)		
			Low	m <sup>3</sup> /h	620 (3)	1,021 (3)	1,001 (3)	1,184 (3)		
			Medium	m <sup>3</sup> /h	931 (3)	1,314 (3)	1,467 (3)	1,382 (3)		
			High	m <sup>3</sup> /h	1,082 (3)	1,467 (3)	1,692 (3)	1,707 (3)		
	Available static pressure	Fan speed 1	Pa	30						
			Fan speed 2	Pa	50					
			Fan speed 3	Pa	70					
			Fan speed 4	Pa	75	80	80	75		
			Fan speed 5	Pa	80	80	-	80		
			Low	Pa	50					
			Medium	Pa	75	70	75	70	75	
High	Pa	80	75		80					

# 2 Specifications

## 2 - 1 Specifications

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Technical specifications				FWE12FT	FWE14FT	FWE16FT	FWE20FT	FWE24FT
Fan motor	Model			YF110-48-4S29	YF110-32-4D9 YF110-48-4S29		YF110-27-4S17	YF110-48-4S29
	Type			AC Motor				
Total sound power level	Fan speed 1	dB(A)	42.0 (4)	44.0 (4)		41.0 (4)		43.0 (4)
Total sound power level	Fan speed 2	dB(A)	48.0 (4)	51.0 (4)		47.0 (4)		50.0 (4)
	Fan speed 3	dB(A)	54.0 (4)	58.0 (4)		53.0 (4)		57.0 (4)
	Fan speed 4	dB(A)	57.0 (4)	60.0 (4)		59.0 (4)		60.0 (4)
	Fan speed 5	dB(A)	61.0 (4)	64.0 (4)		-		64.0 (4)
	Low	dB(A)	48.0 (4)	51.0 (4)		47.0 (4)		50.0 (4)
Sound pressure level	Medium	dB(A)	57.0 (4)	58.0 (4)	60.0 (4)	53.0 (4)		60.0 (4)
	High	dB(A)	61.0 (4)	60.0 (4)	64.0 (4)	59.0 (4)		64.0 (4)
	Fan speed 1	dB(A)	31.0 (5)	33.0 (5)		30.0 (5)		32.0 (5)
Sound pressure level	Fan speed 2	dB(A)	37.0 (5)	40.0 (5)		36.0 (5)		39.0 (5)
	Fan speed 3	dB(A)	43.0 (5)	47.0 (5)		42.0 (5)		46.0 (5)
	Fan speed 4	dB(A)	46.0 (5)	49.0 (5)		48.0 (5)		49.0 (5)
	Fan speed 5	dB(A)	50.0 (5)	53.0 (5)		-		53.0 (5)
	Low	dB(A)	37.0 (5)	40.0 (5)		36.0 (5)		39.0 (5)
Water flow	Medium	dB(A)	46.0 (5)	47.0 (5)	49.0 (5)	42.0 (5)		49.0 (5)
	High	dB(A)	50.0 (5)	49.0 (5)	53.0 (5)	48.0 (5)		53.0 (5)
	Cooling	Fan speed 1	l/h	412 (1)	705 (1)	722 (1)	955 (1)	1,081 (1)
Water flow	Cooling	Fan speed 2	l/h	612 (1)	969 (1)	987 (1)	1,185 (1)	1,347 (1)
		Fan speed 3	l/h	769 (1)	1,157 (1)	1,174 (1)	1,507 (1)	1,640 (1)
		Fan speed 4	l/h	852 (1)	1,224 (1)	1,241 (1)	1,799 (1)	1,839 (1)
		Fan speed 5	l/h	925 (1)	1,283 (1)	1,300 (1)	-	2,059 (1)
		Low	l/h	612 (1)	969 (1)	987 (1)	1,185 (1)	1,347 (1)
	Heating	Medium	l/h	852 (1)	1,157 (1)	1,241 (1)	1,507 (1)	1,839 (1)
		High	l/h	925 (1)	1,224 (1)	1,300 (1)	1,799 (1)	2,059 (1)
		Fan speed 1	l/h	583 (2)	851 (2)	868 (2)	1,002 (2)	1,143 (2)
		Fan speed 2	l/h	763 (2)	1,089 (2)	1,106 (2)	1,269 (2)	1,434 (2)
		Fan speed 3	l/h	932 (2)	1,315 (2)	1,332 (2)	1,601 (2)	1,721 (2)
	Heating	Fan speed 4	l/h	1,040 (2)	1,426 (2)	1,443 (2)	1,866 (2)	1,897 (2)
		Fan speed 5	l/h	1,160 (2)	1,582 (2)	1,599 (2)	-	2,077 (2)
		High	l/h	1,160 (2)	1,426 (2)	1,599 (2)	1,866 (2)	2,077 (2)
		Low	l/h	763 (2)	1,089 (2)	1,106 (2)	1,269 (2)	1,434 (2)
		Medium	l/h	1,040 (2)	1,315 (2)	1,443 (2)	1,601 (2)	1,897 (2)
Water pressure drop	Cooling	Fan speed 1	kPa	6 (1)	8 (1)	9 (1)		12 (1)
		Fan speed 2	kPa	11 (1)	15 (1)			14 (1)
		Fan speed 3	kPa	16 (1)	21 (1)			25 (1)
	Heating	Fan speed 4	kPa	19 (1)	23 (1)	24 (1)	30 (1)	31 (1)
		Fan speed 5	kPa	23 (1)	25 (1)	26 (1)	-	38 (1)
		Low	kPa	11 (1)	15 (1)			14 (1)
Water flow	Cooling	Medium	kPa	19 (1)	21 (1)	24 (1)	21 (1)	31 (1)
		High	kPa	23 (1)		26 (1)	30 (1)	38 (1)
	Heating	Fan speed 1	kPa	7 (2)	9 (2)	10 (2)	8 (2)	9 (2)
		Fan speed 2	kPa	12 (2)	13 (2)	14 (2)	12 (2)	14 (2)
		Fan speed 3	kPa	17 (2)	18 (2)	19 (2)	18 (2)	20 (2)
		Fan speed 4	kPa	22 (2)	21 (2)	22 (2)	24 (2)	
		Fan speed 5	kPa	27 (2)	25 (2)	26 (2)	-	29 (2)
		Low	kPa	12 (2)	13 (2)	14 (2)	12 (2)	14 (2)
		Medium	kPa	22 (2)	18 (2)	22 (2)	18 (2)	24 (2)
		High	kPa	27 (2)	21 (2)	26 (2)	24 (2)	29 (2)
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" BSP (female thread)					
		Outlet	3/4" BSP (female thread)					
	Drain	OD	mm					

Standard accessories: Installation manual;Quantity: 1;

Standard accessories: Drain hose;Quantity: 1;

Electrical specifications				FWE04FT	FWE05FT	FWE06FT	FWE08FT	FWE10FT
Power supply	Type			220-240 / 1 / 50				
	Phase			1~				
	Frequency	Hz	50					
	Voltage	V	220-240					

Electrical specifications				FWE12FT	FWE14FT	FWE16FT	FWE20FT	FWE24FT
Power supply	Type			220-240 / 1 / 50				
	Phase			1~				
	Frequency	Hz	50					
	Voltage	V	220-240					

(1)Inlet/outlet water temperature 7/12 °C; inlet air temperature 27°C DB 19°C WB |



## 2 Specifications

### 2 - 1 Specifications

(2) Heating: indoor temp. 20°CDB, 15°CWB; entering water temp. 45°C, water temperature drop 5K. |

(3) Airflow value measurements are performed at 20°C (DB) /15°C (WB) condition. |

(4) Sound power level according to ISO3741 |

(5) The sound pressure level is measured via a microphone at 1m distance of the unit.

Technical specifications			FWE04FF	FWE05FF	FWE06FF	FWE08FF	FWE10FF		
Cooling capacity (standard conditions)	Latent capacity 4-pipe	High	kW	0.36 (1)	0.54 (1)	0.68 (1)	0.83 (1)	0.93 (1)	
		Sensible capacity 4-pipe	Fan speed 1	kW	0.93 (1)	0.97 (1)	1.36 (1)	1.64 (1)	1.71 (1)
	Fan speed 2		kW	1.27 (1)	1.39 (1)	1.82 (1)	2.28 (1)	2.57 (1)	
	Fan speed 3		kW	1.51 (1)	1.70 (1)	2.27 (1)	3.00 (1)	3.31 (1)	
	Fan speed 4		kW	1.75 (1)	2.05 (1)	2.43 (1)	3.52 (1)	3.70 (1)	
	Fan speed 5		kW	-	-	2.72 (1)	-	4.10 (1)	
	Total capacity 4-pipe	Low	kW	1.27 (1)	1.39 (1)	1.82 (1)	2.28 (1)	2.57 (1)	
		Medium	kW	1.51 (1)	1.70 (1)	2.43 (1)	3.00 (1)	3.31 (1)	
		High	kW	1.75 (1)	2.05 (1)	2.72 (1)	3.52 (1)	3.70 (1)	
		Fan speed 1	kW	1.16 (1)	1.26 (1)	1.76 (1)	2.12 (1)	2.25 (1)	
		Fan speed 2	kW	1.58 (1)	1.78 (1)	2.29 (1)	2.92 (1)	3.34 (1)	
		Fan speed 3	kW	1.85 (1)	2.16 (1)	2.84 (1)	3.79 (1)	4.19 (1)	
		Fan speed 4	kW	2.11 (1)	2.59 (1)	3.03 (1)	4.35 (1)	4.63 (1)	
		Fan speed 5	kW	-	-	3.40 (1)	-	5.00 (1)	
		Low	kW	1.58 (1)	1.78 (1)	2.29 (1)	2.92 (1)	3.34 (1)	
		Medium	kW	1.85 (1)	2.16 (1)	3.03 (1)	3.79 (1)	4.19 (1)	
	High	kW	2.11 (1)	2.59 (1)	3.40 (1)	4.35 (1)	4.63 (1)		
	Heating capacity (standard conditions)	Capacity 4-pipe	Fan speed 1	kW	1.61 (2)	1.64 (2)	2.03 (2)	2.99 (2)	3.51 (2)
			Fan speed 2	kW	2.00 (2)	2.05 (2)	2.43 (2)	3.63 (2)	4.25 (2)
			Fan speed 3	kW	2.29 (2)	2.34 (2)	2.82 (2)	4.44 (2)	4.91 (2)
Fan speed 4			kW	2.59 (2)	2.65 (2)	2.95 (2)	5.11 (2)	5.30 (2)	
Fan speed 5			kW	-	-	3.18 (2)	-	5.72 (2)	
Low			kW	2.00 (2)	2.05 (2)	2.43 (2)	3.63 (2)	4.25 (2)	
Medium			kW	2.29 (2)	2.34 (2)	2.95 (2)	4.44 (2)	4.91 (2)	
High			kW	2.59 (2)	2.65 (2)	3.18 (2)	5.11 (2)	5.30 (2)	
Power input	Fan speed 1	kW	0.04 (3)	-	0.06 (3)	-	0.07 (3)		
	Fan speed 2	kW	0.05 (3)	-	0.06 (3)	0.07 (3)	0.08 (3)		
	Fan speed 3	kW	0.05 (3)	-	0.07 (3)	0.08 (3)	0.10 (3)		
	Fan speed 4	kW	0.06 (3)	-	0.07 (3)	0.09 (3)	0.11 (3)		
	Fan speed 5	kW	-	-	0.08 (3)	-	0.12 (3)		
	Low	kW	0.05 (3)	-	0.06 (3)	0.07 (3)	0.08 (3)		
	Med.	kW	0.05 (3)	-	0.07 (3)	0.08 (3)	0.10 (3)		
	High	kW	0.057 (3)	-	0.079 (3)	0.094 (3)	0.109 (3)		
Dimensions	Unit	Height	mm	253		1,100			
		Width	mm	797		1,100			
		Depth	mm	570		1,100			
Dimensions	Packed unit	Height	mm	270		1,215			
		Width	mm	890		1,215			
		Depth	mm	675		1,215			
Weight	Unit	kg	19.5	20.5	27.0	27.5			
	Packed unit	kg	21	22	29	30			
Casing	Colour		Metal						
	Material		Galvanised steel						
Heat exchanger	Type		Seamless copper tubing, mechanically bonded to rippled and louvered aluminum fins.						
	Length	mm	465		770				
	Rows	Quantity	4						
	Fin	Type	Multi louver fin						
	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

### 2 - 1 Specifications

Technical specifications				FWE04FF	FWE05FF	FWE06FF	FWE08FF	FWE10FF			
Fan	Type	Sirocco fan									
	Quantity	1			2						
	Air flow rate	Fan speed 1	m <sup>3</sup> /h	216 (3)		301 (3)		325 (3)	436 (3)		
		Fan speed 2	m <sup>3</sup> /h	307 (3)		400 (3)		467 (3)	620 (3)		
		Fan speed 3	m <sup>3</sup> /h	379 (3)		514 (3)		668 (3)	805 (3)		
		Fan speed 4	m <sup>3</sup> /h	465 (3)		555 (3)		854 (3)	931 (3)		
		Fan speed 5	m <sup>3</sup> /h	-		638 (3)		-	1,082 (3)		
		Low	m <sup>3</sup> /h	307 (3)		400 (3)		467 (3)	620 (3)		
		Medium	m <sup>3</sup> /h	379 (3)		555 (3)		668 (3)	805 (3)		
		High	m <sup>3</sup> /h	465 (3)		638 (3)		854 (3)	931 (3)		
	Available static pressure	Fan speed 1	Pa	30							
		Fan speed 2	Pa	40	45						
		Fan speed 3	Pa	60			65				
		Fan speed 4	Pa	80	70	80	70				
		Fan speed 5	Pa	-	80	-	80				
		Low	Pa	40	45						
		Medium	Pa	60	70	60	65				
High		Pa	80			70					
Fan motor	Model	YF110-13-4D9		YF110-32-4D9	YF110-27-4S17	YF110-48-4S29					
	Type	AC Motor									
Total sound power level	Fan speed 1	dB(A)	32.0 (4)	33.0 (4)	41.0 (4)	37.0 (4)	40.0 (4)				
	Fan speed 2	dB(A)	40.0 (4)		48.0 (4)	42.0 (4)	47.0 (4)				
	Fan speed 3	dB(A)	46.0 (4)	47.0 (4)	54.0 (4)	49.0 (4)	53.0 (4)				
	Fan speed 4	dB(A)	52.0 (4)	53.0 (4)	57.0 (4)	55.0 (4)	57.0 (4)				
	Fan speed 5	dB(A)	-		61.0 (4)	-	60.0 (4)				
	Low	dB(A)	40.0 (4)		48.0 (4)	42.0 (4)	47.0 (4)				
	Medium	dB(A)	46.0 (4)	47.0 (4)	57.0 (4)	49.0 (4)	53.0 (4)				
	High	dB(A)	52.0 (4)	53.0 (4)	61.0 (4)	55.0 (4)	57.0 (4)				
Sound pressure level	Fan speed 1	dB(A)	21.0 (5)	22.0 (5)	30.0 (5)	26.0 (5)	29.0 (5)				
	Fan speed 2	dB(A)	29.0 (5)		37.0 (5)	31.0 (5)	36.0 (5)				
	Fan speed 3	dB(A)	35.0 (5)	36.0 (5)	43.0 (5)	38.0 (5)	42.0 (5)				
	Fan speed 4	dB(A)	41.0 (5)	42.0 (5)	46.0 (5)	44.0 (5)	46.0 (5)				
	Fan speed 5	dB(A)	-		50.0 (5)	-	49.0 (5)				
	Low	dB(A)	29.0 (5)		37.0 (5)	31.0 (5)	36.0 (5)				
	Medium	dB(A)	35.0 (5)	36.0 (5)	46.0 (5)	38.0 (5)	42.0 (5)				
	High	dB(A)	41.0 (5)	42.0 (5)	50.0 (5)	44.0 (5)	46.0 (5)				
	Water flow	Cooling	Fan speed 1	l/h	199 (1)	217 (1)	303 (1)	365 (1)	387 (1)		
			Fan speed 2	l/h	272 (1)	306 (1)	393 (1)	502 (1)	574 (1)		
Fan speed 3			l/h	319 (1)	372 (1)	489 (1)	652 (1)	720 (1)			
Fan speed 4			l/h	363 (1)	446 (1)	522 (1)	748 (1)	796 (1)			
Fan speed 5			l/h	-		584 (1)	-	860 (1)			
Low			l/h	272 (1)	306 (1)	393 (1)	502 (1)	574 (1)			
Medium			l/h	319 (1)	372 (1)	489 (1)	652 (1)	720 (1)			
High			l/h	363 (1)	446 (1)	584 (1)	748 (1)	796 (1)			
Heating			Fan speed 1	l/h	138 (2)	141 (2)	175 (2)	257 (2)	302 (2)		
			Fan speed 2	l/h	172 (2)	176 (2)	209 (2)	312 (2)	366 (2)		
		Fan speed 3	l/h	197 (2)	201 (2)	243 (2)	382 (2)	422 (2)			
		Fan speed 4	l/h	223 (2)	228 (2)	254 (2)	440 (2)	456 (2)			
		Fan speed 5	l/h	-		273 (2)	-	492 (2)			
		High	l/h	223 (2)	228 (2)	273 (2)	440 (2)	456 (2)			
		Low	l/h	172 (2)	176 (2)	209 (2)	312 (2)	366 (2)			
		Medium	l/h	197 (2)	201 (2)	254 (2)	382 (2)	422 (2)			
		Water pressure drop	Cooling	Fan speed 1	kPa	7 (1)	4 (1)	6 (1)	5 (1)	6 (1)	
				Fan speed 2	kPa	10 (1)	6 (1)		9 (1)	10 (1)	
Fan speed 3				kPa	13 (1)	8 (1)	12 (1)	14 (1)	15 (1)		
Fan speed 4				kPa	16 (1)	11 (1)	14 (1)	18 (1)	17 (1)		
Fan speed 5	kPa			-		16 (1)	-	20 (1)			
Low	kPa		10 (1)	6 (1)		9 (1)	10 (1)				
Heating	Medium		kPa	13 (1)	8 (1)		14 (1)	15 (1)			
	High		kPa	16 (1)	11 (1)	16 (1)	18 (1)	17 (1)			
	Fan speed 1		kPa	2 (2)		3 (2)			4 (2)		
	Fan speed 2		kPa	2 (2)		4 (2)			5 (2)		
	Fan speed 3	kPa	3 (2)		5 (2)			6 (2)			
Fan speed 4	kPa	3 (2)		6 (2)			7 (2)				
Fan speed 5	kPa	-		5 (2)			8 (2)				
Low	kPa	2 (2)		4 (2)			5 (2)				
Medium	kPa	3 (2)		5 (2)			6 (2)				
High	kPa	3 (2)		5 (2)			7 (2)				
Allowed water temperature	Cooling	Min.	°C								
		Max.	°C								
	Heating	Min.	°C								
		Max.	°C								

## 2 Specifications

### 2 - 1 Specifications

Technical specifications				FWE04FF	FWE05FF	FWE06FF	FWE08FF	FWE10FF	
Piping connections	Water	Inlet		3/4" BSP (female thread)					
		Outlet		3/4" BSP (female thread)					
	Drain	OD	mm	16.7					
Technical specifications				FWE12FF	FWE14FF	FWE16FF	FWE20FF	FWE24FF	
Cooling capacity (standard conditions)	Latent capacity	High	kW	1.05 (1)	1.33 (1)	1.26 (1)	2.41 (1)	2.68 (1)	
			4-pipe						
	Sensible capacity	Fan speed 1	kW	1.93 (1)	2.97 (1)	3.06 (1)	3.86 (1)	4.35 (1)	
			4-pipe						
	Fan speed 2	kW	2.78 (1)	4.03 (1)	4.19 (1)	4.90 (1)	5.57 (1)		
		4-pipe							
	Fan speed 3	kW	3.40 (1)	5.06 (1)	5.20 (1)	6.37 (1)	6.96 (1)		
		4-pipe							
	Fan speed 4	kW	3.81 (1)	5.61 (1)	5.73 (1)	7.60 (1)	7.84 (1)		
		4-pipe							
	Fan speed 5	kW	4.27 (1)	6.00 (1)	6.18 (1)	-	8.85 (1)		
		4-pipe							
	Low	kW	2.78 (1)	4.03 (1)	4.19 (1)	4.90 (1)	5.57 (1)		
		4-pipe							
	Medium	kW	3.81 (1)	5.06 (1)	5.73 (1)	6.37 (1)	7.84 (1)		
		4-pipe							
	High	kW	4.27 (1)	5.61 (1)	6.18 (1)	7.60 (1)	8.85 (1)		
		4-pipe							
	Total capacity	Fan speed 1	kW	2.30 (1)	4.04 (1)	4.14 (1)	5.58 (1)	6.31 (1)	
			4-pipe						
Fan speed 2	kW	3.39 (1)	5.49 (1)	5.58 (1)	6.79 (1)	7.73 (1)			
	4-pipe								
Fan speed 3	kW	4.31 (1)	6.55 (1)	6.65 (1)	8.48 (1)	9.30 (1)			
	4-pipe								
Fan speed 4	kW	4.82 (1)	6.95 (1)	7.05 (1)	10.00 (1)	10.35 (1)			
	4-pipe								
Fan speed 5	kW	5.32 (1)	7.34 (1)	7.44 (1)	-	11.52 (1)			
	4-pipe								
Low	kW	3.39 (1)	5.49 (1)	5.58 (1)	6.79 (1)	7.73 (1)			
	4-pipe								
Medium	kW	4.82 (1)	6.55 (1)	7.05 (1)	8.48 (1)	10.35 (1)			
	4-pipe								
High	kW	5.32 (1)	6.95 (1)	7.44 (1)	10.00 (1)	11.52 (1)			
	4-pipe								
Heating capacity (standard conditions)	Capacity	Fan speed 1	kW	3.56 (2)	5.62 (2)	5.72 (2)	6.69 (2)	7.32 (2)	
			4-pipe						
	Fan speed 2	kW	4.30 (2)	6.68 (2)	6.78 (2)	7.85 (2)	8.65 (2)		
		4-pipe							
	Fan speed 3	kW	4.96 (2)	7.64 (2)	7.74 (2)	9.37 (2)	10.02 (2)		
		4-pipe							
	Fan speed 4	kW	5.35 (2)	8.09 (2)	8.19 (2)	10.66 (2)	10.89 (2)		
		4-pipe							
	Fan speed 5	kW	5.77 (2)	8.69 (2)	8.79 (2)	-	11.82 (2)		
		4-pipe							
Low	kW	4.30 (2)	6.68 (2)	6.78 (2)	7.85 (2)	8.65 (2)			
	4-pipe								
Medium	kW	5.35 (2)	7.64 (2)	8.19 (2)	9.37 (2)	10.89 (2)			
	4-pipe								
High	kW	5.77 (2)	8.09 (2)	8.79 (2)	10.66 (2)	11.82 (2)			
	4-pipe								
Power input	Fan speed 1	kW	0.07 (3)		0.12 (3)		0.11 (3)	0.13 (3)	
		4-pipe							
	Fan speed 2	kW	0.08 (3)		0.14 (3)		0.13 (3)	0.15 (3)	
		4-pipe							
	Fan speed 3	kW	0.10 (3)			0.16 (3)		0.18 (3)	
		4-pipe							
	Fan speed 4	kW	0.11 (3)		0.17 (3)		0.18 (3)	0.20 (3)	
		4-pipe							
	Fan speed 5	kW	0.12 (3)		0.19 (3)		-	0.22 (3)	
		4-pipe							
Low	kW	0.08 (3)		0.14 (3)		0.13 (3)	0.15 (3)		
	4-pipe								
Med.	kW	0.11 (3)	0.16 (3)		0.17 (3)	0.16 (3)	0.20 (3)		
	4-pipe								
High	kW	0.122 (3)	0.170 (3)		0.189 (3)	0.180 (3)	0.224 (3)		
	4-pipe								
Dimensions	Unit	Height	mm	253					
		Width	mm	1,100	1,410		1,710		
		Depth	mm	570					
Dimensions	Packed unit	Height	mm	270					
		Width	mm	1,215	1,530		1,830		
		Depth	mm	675					
Weight	Unit	kg	27.5	38.0		46.5			
	Packed unit	kg	30	41		50			
Casing	Colour	Metal							
	Material	Galvanised steel							
Heat exchanger	Type	Seamless copper tubing, mechanically bonded to rippled and louvred aluminum fins.							
	Length	mm	770	1,080		1,380			
	Rows	Quantity	4					5	
	Fin	Type	Multi louver fin						
	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	4		5			

## 2 Specifications

### 2 - 1 Specifications

Technical specifications				FWE12FF	FWE14FF	FWE16FF	FWE20FF	FWE24FF		
Fan	Type	Sirocco fan								
	Quantity	2		3			4			
	Air flow rate	Fan speed 1	m <sup>3</sup> /h	436 (3)	730 (3)		714 (3)	855 (3)		
		Fan speed 2	m <sup>3</sup> /h	620 (3)	1,021 (3)		1,001 (3)	1,184 (3)		
		Fan speed 3	m <sup>3</sup> /h	805 (3)	1,314 (3)		1,382 (3)	1,528 (3)		
		Fan speed 4	m <sup>3</sup> /h	931 (3)	1,467 (3)		1,707 (3)	1,751 (3)		
		Fan speed 5	m <sup>3</sup> /h	1,082 (3)	1,692 (3)		-	1,990 (3)		
	Low		m <sup>3</sup> /h	620 (3)	1,021 (3)		1,001 (3)	1,184 (3)		
		Medium	m <sup>3</sup> /h	931 (3)	1,314 (3)	1,467 (3)	1,382 (3)	1,751 (3)		
		High	m <sup>3</sup> /h	1,082 (3)	1,467 (3)	1,692 (3)	1,707 (3)	1,990 (3)		
	Available static pressure	Fan speed 1	Pa	30						
		Fan speed 2	Pa	50						
		Fan speed 3	Pa	70						
		Fan speed 4	Pa	75			80		75	
		Fan speed 5	Pa	80			-		80	
Low		Pa	50							
Medium		Pa	75	70	75	70	75			
High	Pa	80	75	80						
Fan motor	Model	YF110-48-4S29		YF110-32-4D9 YF110-48-4S29		YF110-27-4S17	YF110-48-4S29			
	Type	AC Motor								
Total sound power level	Fan speed 1	dB(A)	40.0 (4)		45.0 (4)		41.0 (4)	44.0 (4)		
	Fan speed 2	dB(A)	47.0 (4)		52.0 (4)		48.0 (4)	51.0 (4)		
	Fan speed 3	dB(A)	53.0 (4)		58.0 (4)		54.0 (4)	57.0 (4)		
	Fan speed 4	dB(A)	57.0 (4)		61.0 (4)		60.0 (4)			
	Fan speed 5	dB(A)	60.0 (4)		64.0 (4)		-	64.0 (4)		
Low		dB(A)	47.0 (4)		52.0 (4)		48.0 (4)	51.0 (4)		
	Medium	dB(A)	57.0 (4)	58.0 (4)	61.0 (4)	54.0 (4)	60.0 (4)			
	High	dB(A)	60.0 (4)	61.0 (4)	64.0 (4)	60.0 (4)	64.0 (4)			
	Sound pressure level	Fan speed 1	dB(A)	29.0 (5)		34.0 (5)		30.0 (5)	33.0 (5)	
		Fan speed 2	dB(A)	36.0 (5)		41.0 (5)		37.0 (5)	40.0 (5)	
Fan speed 3		dB(A)	42.0 (5)		47.0 (5)		43.0 (5)	46.0 (5)		
Fan speed 4		dB(A)	46.0 (5)		50.0 (5)		49.0 (5)			
Fan speed 5		dB(A)	49.0 (5)		53.0 (5)		-	53.0 (5)		
Low		dB(A)	36.0 (5)		41.0 (5)		37.0 (5)	40.0 (5)		
	Medium	dB(A)	46.0 (5)	47.0 (5)	50.0 (5)	43.0 (5)	49.0 (5)			
	High	dB(A)	49.0 (5)	50.0 (5)	53.0 (5)	49.0 (5)	53.0 (5)			
	Water flow	Cooling	Fan speed 1	l/h	395 (1)	695 (1)	712 (1)	960 (1)	1,085 (1)	
			Fan speed 2	l/h	583 (1)	943 (1)	960 (1)	1,168 (1)	1,330 (1)	
Fan speed 3			l/h	740 (1)	1,127 (1)	1,143 (1)	1,459 (1)	1,599 (1)		
Fan speed 4			l/h	829 (1)	1,195 (1)	1,212 (1)	1,720 (1)	1,780 (1)		
Fan speed 5			l/h	915 (1)	1,262 (1)	1,279 (1)	-	1,981 (1)		
Low			l/h	583 (1)	943 (1)	960 (1)	1,168 (1)	1,330 (1)		
Medium			l/h	829 (1)	1,127 (1)	1,212 (1)	1,459 (1)	1,780 (1)		
High			l/h	915 (1)	1,195 (1)	1,279 (1)	1,720 (1)	1,981 (1)		
Heating			Fan speed 1	l/h	306 (2)	483 (2)	492 (2)	575 (2)	630 (2)	
			Fan speed 2	l/h	370 (2)	575 (2)	583 (2)	675 (2)	744 (2)	
		Fan speed 3	l/h	426 (2)	657 (2)	665 (2)	806 (2)	861 (2)		
		Fan speed 4	l/h	460 (2)	695 (2)	704 (2)	916 (2)	936 (2)		
		Fan speed 5	l/h	496 (2)	747 (2)	756 (2)	-	1,017 (2)		
High		l/h	496 (2)	695 (2)	756 (2)	916 (2)	1,017 (2)			
Low		l/h	370 (2)	575 (2)	583 (2)	675 (2)	744 (2)			
Medium	l/h	460 (2)	657 (2)	704 (2)	806 (2)	936 (2)				
Water pressure drop	Cooling	Fan speed 1	kPa	5 (1)	8 (1)	9 (1)		12 (1)		
		Fan speed 2	kPa	10 (1)	14 (1)	15 (1)	13 (1)	17 (1)		
		Fan speed 3	kPa	15 (1)	20 (1)		24 (1)			
		Fan speed 4	kPa	18 (1)	22 (1)	23 (1)	27 (1)	29 (1)		
		Fan speed 5	kPa	22 (1)	24 (1)	25 (1)	-	36 (1)		
	Low	kPa	10 (1)	14 (1)	15 (1)	13 (1)	17 (1)			
	Heating	Medium	kPa	18 (1)	20 (1)	23 (1)	20 (1)	29 (1)		
		High	kPa	22 (1)	25 (1)	25 (1)	27 (1)	36 (1)		
		Fan speed 1	kPa	5 (2)	8 (2)	9 (2)	12 (2)	14 (2)		
		Fan speed 2	kPa	6 (2)	10 (2)	11 (2)	15 (2)	18 (2)		
Fan speed 3		kPa	7 (2)	13 (2)	14 (2)	20 (2)	23 (2)			
Fan speed 4	kPa	8 (2)	14 (2)	15 (2)	25 (2)	26 (2)				
Fan speed 5	kPa	8 (2)	16 (2)	17 (2)	-	30 (2)				
Low	kPa	6 (2)	10 (2)	11 (2)	15 (2)	18 (2)				
Medium	kPa	8 (2)	13 (2)	15 (2)	20 (2)	26 (2)				
High	kPa	8 (2)	14 (2)	17 (2)	25 (2)	30 (2)				
Allowed water temperature	Cooling	Min.	°C		5					
		Max.	°C		90.0					
	Heating	Min.	°C		5.00					
		Max.	°C		90.000					

## 2 Specifications

### 2 - 1 Specifications

Technical specifications			FWE12FF	FWE14FF	FWE16FF	FWE20FF	FWE24FF
Piping connections	Water	Inlet					3/4" BSP (female thread)
		Outlet					3/4" BSP (female thread)
	Drain	OD	mm				

Standard accessories: Installation manual;Quantity: 1;

Standard accessories: Drain hose;Quantity: 1;

Electrical specifications			FWE04FF	FWE05FF	FWE06FF	FWE08FF	FWE10FF
Power supply	Type						220-240 / 1 / 50
	Phase						1~
	Frequency	Hz					50
	Voltage	V					220-240

Electrical specifications			FWE12FF	FWE14FF	FWE16FF	FWE20FF	FWE24FF
Power supply	Type						220-240 / 1 / 50
	Phase						1~
	Frequency	Hz					50
	Voltage	V					220-240

(1)Inlet/outlet water temperature 7/12 °C; inlet air temperature 27°C DB 19°C WB |

(2)Heating: indoor temp. 20°CDB, 15°CWB; entering water temp. 45°C, water temperature drop 5K. |

(3)Airflow value measurements are performed at 20C (DB) /15 C(WB) condition. |

(4)Sound power level according to ISO3741 |

(5)The sound pressure level is measured via a microphone at 1m distance of the unit.

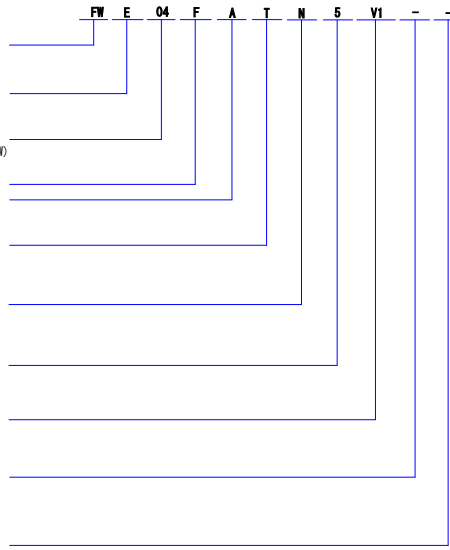
# 3 Nomenclature

## 3 - 1 Nomenclature

3

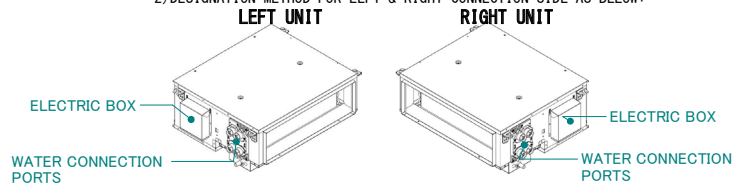
FWE-FF  
FWE-FT

DIGIT	CLASSIFICATION	CODE	DESCRIPTION
1-2	TYPE OF UNIT	FW	Water Fan Coil Unit
3	SUBCLASS	E	LSP
4-5	SPECIFICATION INDEX	04	Capacity Class. (e.g.: Total Cooling Capacity: 04 = -2 kW, 05 = -2.5 kW)
6	MODEL CHANGE INDICATION	F	Major Model Series
7		A	Minor Model Change
8	COIL TYPE	T	2 Pipe
		F	4 Pipe
9	VALVE	N	Without valve
		T	2 way on-off 230 V valve
		V	3 way on-off 230 V valve
10	FACTORY	5	DTAS (Turkey)
11-12	POWER SUPPLY	VI	Single Phase 50 Hz / 220-240 V
13	OPTIONS (FACTORY MOUNTED)	-	No Options
14	CONNECTION SIDE (SEE NOTE 2)	-	Left side water - Left side electric connection
		R	Right side water - Right side electric connection



**NOTES:**

- 1) THIS NOMENCLATURE IS APPLICABLE ONLY FOR FWE-F.
- 2) DESIGNATION METHOD FOR LEFT & RIGHT CONNECTION SIDE AS BELOW:



WHEN THE UNIT IS FACED FROM THE DISCHARGE SIDE, CONNECTION SIDE IS IN THE SAME SIDE WITH WATER CONNECTION PORTS.

- UNIT IS LEFT IF THE WATER CONNECTION PORTS ARE ON THE LEFT SIDE OF THE UNIT.
- UNIT IS RIGHT IF THE WATER CONNECTION PORTS ARE ON THE RIGHT SIDE OF THE UNIT.

3D149178

# 4 Electrical data

## 4 - 1 Electrical Data

FWE-FF FWE-FT	UNITS		POWER SUPPLY			UNIT												
	MODEL	TYPE	PHASE	Hz	VOLTAGE RANGE (V)	VOLTAGE LIMITS	MCA	MFA	MFA(CAL)	FLA	FAN INPUT(W)							
FWE-FF	FWE-FT	2 PIPE STD	~1	50 Hz	MAX. 264 MIN. 198	220	0.32	5	1.03	0.26	53							
						230	0.34	5	1.07	0.27	58							
						240	0.35	5	1.12	0.28	63							
						FWE04FATN5V1-/-R	220	0.32	5	1.03	0.26	53						
							230	0.34	5	1.07	0.27	58						
							240	0.35	5	1.12	0.28	63						
						FWE05FATN5V1-/-R	220	0.45	5	1.45	0.36	75						
							230	0.47	5	1.52	0.38	82						
							240	0.49	5	1.58	0.40	89						
						FWE06FATN5V1-/-R	220	0.53	5	1.70	0.42	88						
							230	0.56	5	1.78	0.44	96						
							240	0.58	5	1.85	0.46	105						
						FWE08FATN5V1-/-R	220	0.57	5	1.82	0.46	94						
							230	0.60	5	1.91	0.48	103						
							240	0.62	5	1.99	0.50	112						
						FWE10FATN5V1-/-R	220	0.64	5	2.04	0.51	105						
							230	0.66	5	2.13	0.53	115						
							240	0.69	5	2.22	0.56	125						
						FWE12FATN5V1-/-R	220	0.97	5	3.10	0.77	160						
							230	1.01	5	3.24	0.81	175						
							240	1.06	5	3.38	0.84	191						
						FWE14FATN5V1-/-R	220	1.05	5	3.36	0.84	174						
							230	1.10	5	3.52	0.88	190						
							240	1.15	5	3.67	0.92	207						
						FWE16FATN5V1-/-R	220	1.06	5	3.38	0.85	175						
							230	1.10	5	3.53	0.88	191						
							240	1.15	5	3.69	0.92	208						
						FWE20FATN5V1-/-R	220	1.27	5	4.07	1.02	210						
							230	1.33	5	4.26	1.06	230						
							240	1.39	5	4.44	1.11	250						
						FWE-FT	FWE-FT	4 PIPE STD	~1	50 Hz	MAX. 264 MIN. 198	220	0.32	5	1.01	0.25	52	
												230	0.33	5	1.05	0.26	57	
												240	0.34	5	1.10	0.28	62	
												FWE04FAFN5V1-/-R	220	0.32	5	1.01	0.25	52
													230	0.33	5	1.05	0.26	57
													240	0.34	5	1.10	0.28	62
FWE05FAFN5V1-/-R	220	0.44	5	1.40	0.35							72						
	230	0.46	5	1.46	0.37							79						
	240	0.48	5	1.53	0.38							86						
FWE06FAFN5V1-/-R	220	0.52	5	1.66	0.42							86						
	230	0.54	5	1.74	0.43							94						
	240	0.57	5	1.81	0.45							102						
FWE08FAFN5V1-/-R	220	0.60	5	1.93	0.48							100						
	230	0.63	5	2.02	0.50							109						
	240	0.66	5	2.10	0.53							119						
FWE10FAFN5V1-/-R	220	0.67	5	2.16	0.54							112						
	230	0.71	5	2.26	0.56							122						
	240	0.74	5	2.36	0.59							133						
FWE12FAFN5V1-/-R	220	0.94	5	3.01	0.75							156						
	230	0.98	5	3.15	0.79							170						
	240	1.03	5	3.28	0.82							185						
FWE14FAFN5V1-/-R	220	1.05	5	3.34	0.84							173						
	230	1.09	5	3.50	0.87							189						
	240	1.14	5	3.65	0.91							206						
FWE16FAFN5V1-/-R	220	1.00	5	3.19	0.80							165						
	230	1.04	5	3.33	0.83							180						
	240	1.09	5	3.48	0.87							196						
FWE20FAFN5V1-/-R	220	1.24	5	3.96	0.99							205						
	230	1.30	5	4.14	1.04							224						
	240	1.35	5	4.32	1.08							244						

**Symbols:**

- MCA : Min. Circuit Amps (A) (See note 3)
- MFA : Max. Fuse Amps (See note 5)
- MFA(CAL): Max. Fuse Amps (Calculation) (See note 3)
- FLA : Full Load Amps (A)

**Notes:**

- Voltage Limits:  
Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.
- Maximum allowable voltage unbalance between phases is 2%.
- MCA = 1.25 x FLA  
MFA(CAL) = 4 x FLA  
MFA > MCA and MFA > MFA(CAL)
- Select wire sized based on the MCA.
- MFA is selected from the standart rated current values of the following fuse/breakers that can be produced locally market;  
5,10,12,16,20,32,40,50.
- Input power measured from rated conditions which is 230V 50Hz and highest fan speed.

**3D149227A**

# 5 Safety device settings

## 5 - 1 Safety Device Settings

5

FWE-FF  
FWE-FT

Safety devices		FWE(04/05/06/08/10/12/14/16/20/24)F(T/F)(N/T/V)5V1B(L/R)
Fan motor thermal protector	Maximum	250VAC, Activation temperature:130°C (Class B)

4D150038



# 6 Options

## 6-1 Options

FWE-FF  
FWE-FT

Description	Option Name	Source	Availability		2 PIPE				4 PIPE			
			Option Kit	Factory Mounted	04-05-06	08-10-12	14-16	20-24	04-05-06	08-10-12	14-16	20-24
G2 Filter	EKAF02G5A	DTAS	Yes	No	1	/	2	1	1	/	2	1
	EKAF03G5A	DTAS	Yes	No	/	1	/	1	/	1	/	1
2-way valve-ON/OFF (AC 230 V)	EK02WV2V3W5A	DTAS	Yes	Yes	1	1	/	/	2	2	/	/
	EK04WV2V3C5A	DTAS	Yes	Yes	/	/	1	/	/	/	2	/
	EK06WV2V3C5A	DTAS	Yes	Yes	/	/	/	1	/	/	/	2
3-way valve-ON/OFF (AC 230V)	EK02WV3V3W5A	DTAS	Yes	Yes	1	1	/	/	2	2	/	/
	EK04WV3V3C5A	DTAS	Yes	Yes	/	/	1	/	/	/	2	/
	EK06WV3V3C5A	DTAS	Yes	Yes	/	/	/	1	/	/	/	2
Proportional Valve (AC 24 V)	EK02P3V24W5A	DTAS	Yes	No	1	1	/	/	2	2	/	/
	EK04P3V24C5A	DTAS	Yes	No	/	/	1	/	/	/	2	/
3 Way-4 Port valve	EK06P3V24C5A	DTAS	Yes	No	/	/	/	1	/	/	/	2
Remote Controller	FWEC3A	DENV	Yes	No	✓	✓	✓	✓	✓	✓	✓	✓
Remote Controller (for 2 Pipe)	FWEC2T	DENV	Yes	No	✓	✓	✓	✓	/	/	/	/
Remote Controller (for 4 Pipe)	FWEC4T	DENV	Yes	No	/	/	/	/	✓	✓	✓	✓
Remote Controller (Panel Control)	FWECSAP	DENV	Yes	No	✓	✓	✓	✓	✓	✓	✓	✓
Remote Controller (Panel)	FWECSAC	DENV	Yes	No	✓	✓	✓	✓	✓	✓	✓	✓
Remote Controller (Panel)	FWTOUCHW FWTOUCHB FWTOUCHG	DENV	Yes	No	✓	✓	✓	✓	✓	✓	✓	✓
Valve Cable Kit	EKER015A	DTAS	Yes	No	✓	✓	✓	✓	✓	✓	✓	✓

NOTE:

1) 1 AND 2 MEANS THE NUMBER OF OPTIONS REQUIRED PER UNIT.  
EXAMPLE: G2 FILTER OPTION FOR FWE24F\* UNIT, NEEDED TO TAKE BOTH EKAF02G5A AND EKAF03G5A

**3D149225A**

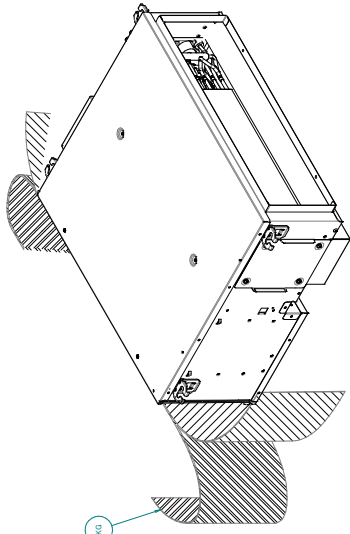
# 7 Dimensional drawings

## 7 - 1 Dimensional Drawings

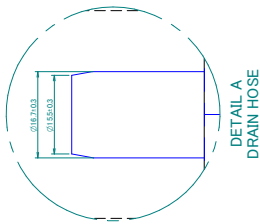
7

FWE-FF  
FWE-FT

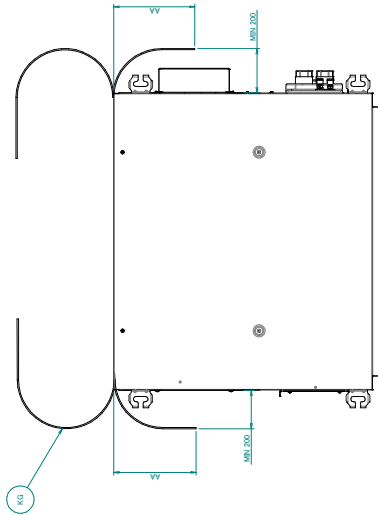
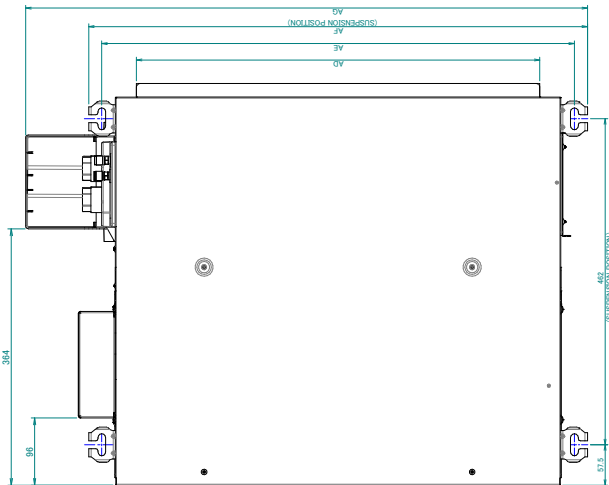
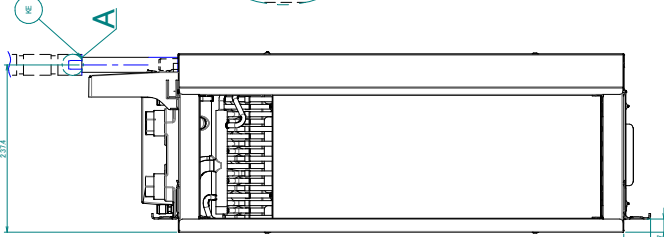
FILTER MAINTENANCE SPACE



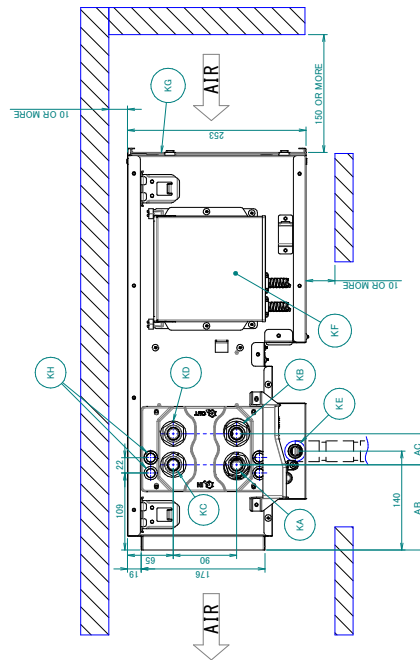
MODEL	AD	AE	AF	AG
FWE04805806F	572	670	707	797
FWE08810812F	877	975	1012	1102
FWE14816F	1187	1285	1322	1412
FWE20824F	1487	1585	1622	1712



SEE NOTE-1



MODEL	AA1 (MAX.)
FWE04805806F	626
FWE08810812F	939
FWE14816F	1252
FWE20824F	1565



ITEM NAME	DESCRIPTION	REMARK
KA	WATER PIPE CONNECTION COOLING IN	Ø 1/2" BSPP FEMALE
KB	WATER PIPE CONNECTION COOLING OUT	Ø 1/2" BSPP FEMALE
KC	WATER PIPE CONNECTION HEATING IN	Ø 1/2" BSPP FEMALE
KE	WATER PIPE CONNECTION HEATING OUT	Ø 1/2" BSPP FEMALE
KD	DRAIN HOSE	Ø 1/2" Ø 11.7
KE	WATER PIPE CONNECTION	Ø 1/2" BSPP FEMALE
KG	AIR FILTER	
KH	AIR FILTER	

MODEL	AB	AC
FWE04805806F/08810812F	118	50
FWE14816F/20824F	121	44

NOTES:

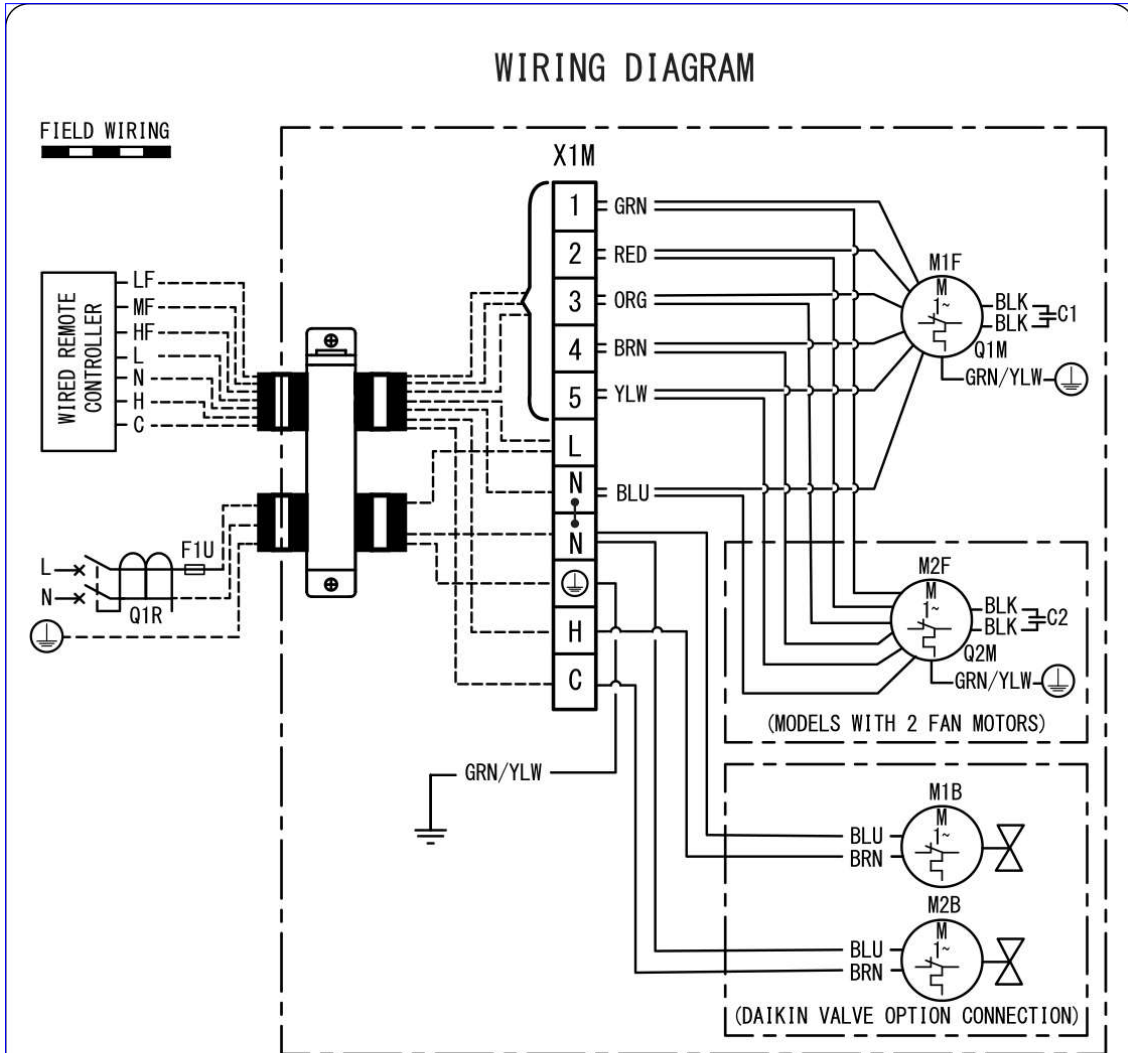
1) DRAIN HOSE (KE) IS FLEXIBLE.

1D149251

# 8 Wiring diagrams

## 8 - 1 Wiring Diagrams - Single Phase

FWE-FF  
FWE-FT



- |                              |                       |              |
|------------------------------|-----------------------|--------------|
| C1, C2 : CAPACITOR           | 1 : LOWEST SPEED      | BRN : BROWN  |
| F1U : FIELD FUSE             | 5 : HIGHEST SPEED     | RED : RED    |
| M1F, M2F : FAN MOTOR         | H : HEATING VALVE     | GRN : GREEN  |
| M1B : HEATING ACTUATOR       | C : COOLING VALVE     | YLW : YELLOW |
| M2B : COOLING ACTUATOR       | LF : LOW FAN SPEED    | ORG : ORANGE |
| Q1M, Q2M : THERMAL PROTECTOR | MF : MEDIUM FAN SPEED | BLU : BLUE   |
| Q1R : EARTH LEAKAGE BREAKER  | HF : HIGH FAN SPEED   | BLK : BLACK  |
| X1M : TERMINAL STRIP         | ⊕ : PROTECTIVE EARTH  |              |
| L : LIVE                     | ⊥ : EARTH             |              |
| N : NEUTRAL                  |                       |              |

Notes:  
 1. REFER TO INSTALLATION MANUAL FOR POWER REQUIREMENT.  
 2. □□□□ TERMINAL BLOCK = ■■■■ FIELD WIRING

4P750003-1

4D148896













# 9 Sound data

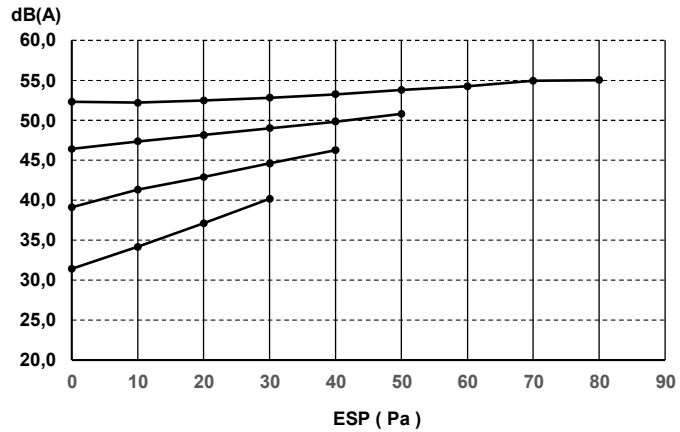
## 9 - 1 Sound Power Spectrum

### FWE04FT FWE04FTR

#### Sound Power overall ( dBA ): FWE04FAT(N/T/V)5V1(-/R)

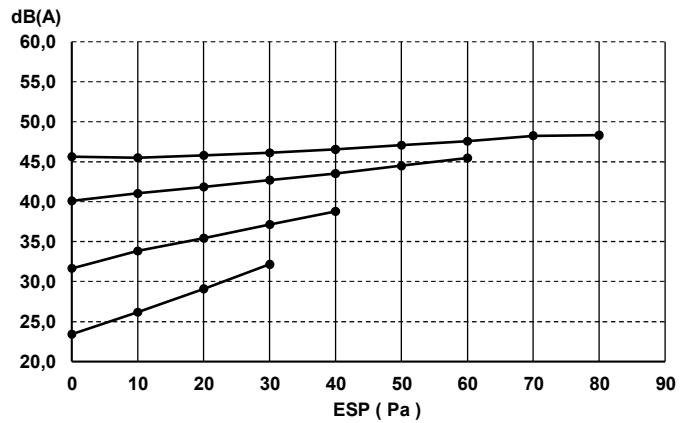
##### Whole casing

ESP (Pa)	Fan speed				
	5	4	3	2	1
		H	M	L	
0		52,3	46,4	39,1	31,4
10		52,2	47,4	41,3	34,2
20		52,5	48,2	42,9	37,1
30		52,8	49,0	44,6	40,2
40		53,3	49,8	46,3	
50		53,8	50,8		
60		54,3	51,8		
70		54,9			
80		55,0			



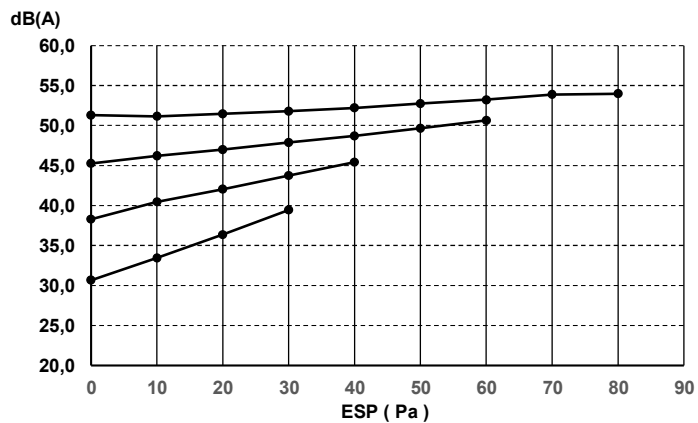
##### Discharge

ESP (Pa)	Fan speed				
	5	4	3	2	1
		H	M	L	
0		45,6	40,1	31,7	23,4
10		45,5	41,0	33,8	26,2
20		45,8	41,8	35,4	29,1
30		46,1	42,7	37,1	32,2
40		46,6	43,5	38,8	
50		47,1	44,5		
60		47,5	45,5		
70		48,2			
80		48,3			



##### Inlet + casing

ESP (Pa)	Fan speed				
	5	4	3	2	1
		H	M	L	
0		51,3	45,3	38,3	30,7
10		51,2	46,2	40,5	33,4
20		51,5	47,0	42,0	36,4
30		51,8	47,9	43,7	39,4
40		52,2	48,7	45,4	
50		52,7	49,6		
60		53,2	50,6		
70		53,9			
80		54,0			



4D149949

# 9 Sound data

## 9 - 1 Sound Power Spectrum

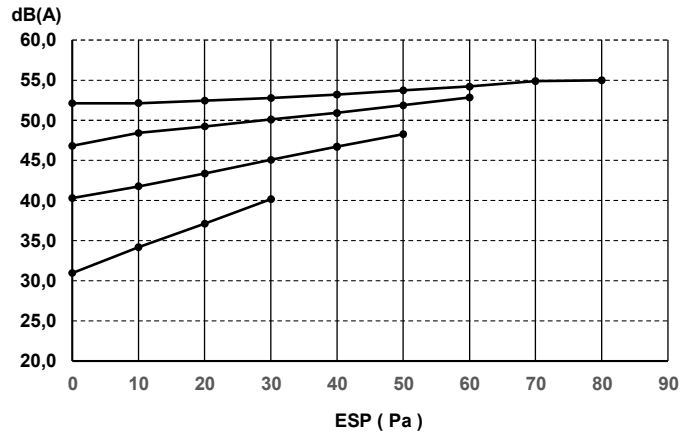
9

### FWE05FT FWE05FTR

#### Sound Power overall ( dBA ): FWE05FAT(N/T/V)5V1(-/R)

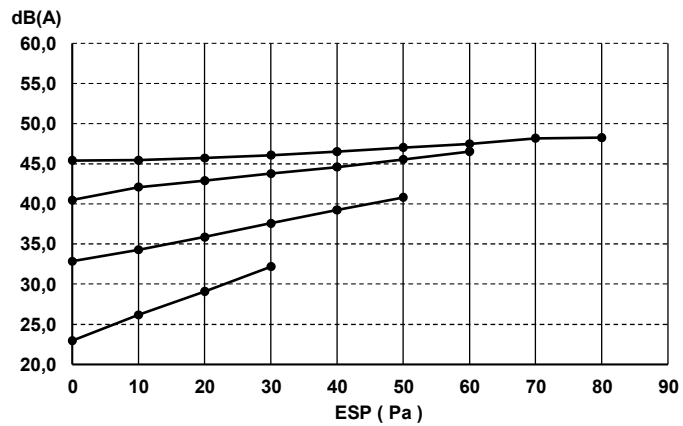
##### Whole casing

ESP (Pa)	Fan speed				
	5	4	3	2	1
0		H	M	L	31,0
10		52,1	48,4	41,8	34,2
20		52,4	49,2	43,4	37,1
30		52,8	50,1	45,1	40,2
40		53,2	50,9	46,7	
50		53,7	51,9	48,3	
60		54,2	52,9		
70		54,9			
80		55,0			



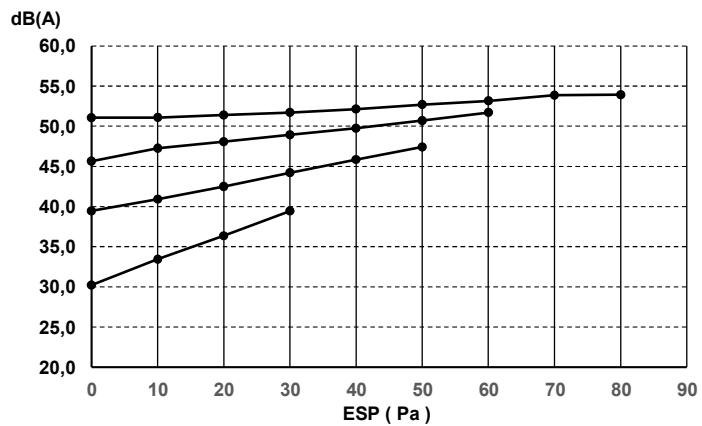
##### Discharge

ESP (Pa)	Fan speed				
	5	4	3	2	1
0		45,4	40,5	32,8	23,0
10		45,4	42,1	34,3	26,2
20		45,7	42,9	35,9	29,1
30		46,1	43,8	37,6	32,2
40		46,5	44,6	39,2	
50		47,0	45,5	40,8	
60		47,5	46,5		
70		48,2			
80		48,3			



##### Inlet + casing

ESP (Pa)	Fan speed				
	5	4	3	2	1
0		51,1	45,6	39,5	30,2
10		51,1	47,3	40,9	33,4
20		51,4	48,1	42,5	36,4
30		51,7	48,9	44,2	39,4
40		52,2	49,8	45,9	
50		52,7	50,7	47,4	
60		53,2	51,7		
70		53,8			
80		53,9			



4D149950

# 9 Sound data

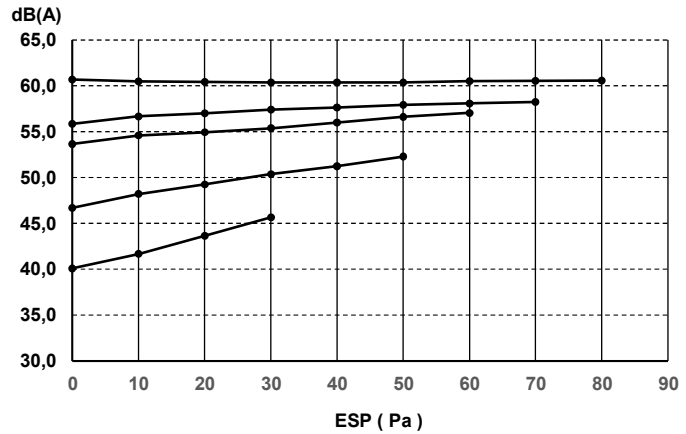
## 9 - 1 Sound Power Spectrum

### FWE06FT FWE06FTR

#### Sound Power overall ( dBA ): FWE06FAT(N/T/V)5V1(-/R)

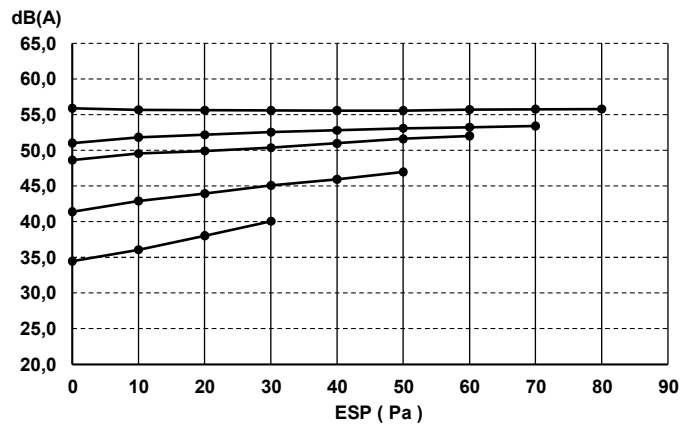
##### Whole casing

ESP (Pa)	Fan speed				
	5 H	4 M	3	2 L	1
0	60,7	55,9	53,7	46,7	40,1
10	60,5	56,7	54,6	48,2	41,7
20	60,4	57,0	55,0	49,3	43,7
30	60,4	57,4	55,4	50,4	45,7
40	60,4	57,7	56,0	51,2	
50	60,4	57,9	56,6	52,3	
60	60,5	58,1	57,0		
70	60,6	58,2			
80	60,6				



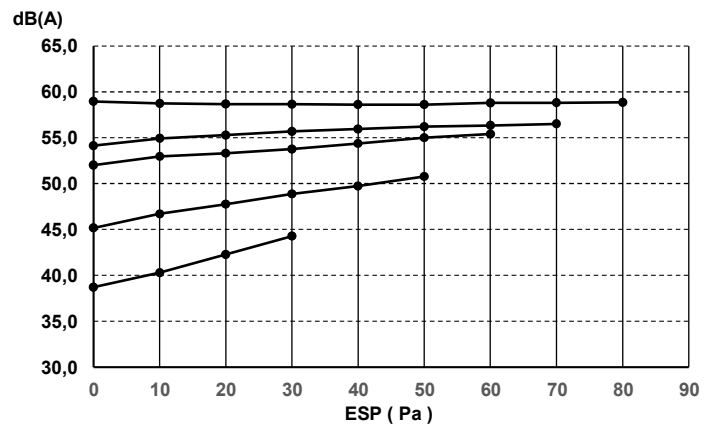
##### Discharge

ESP (Pa)	Fan speed				
	5 H	4 M	3	2 L	1
0	55,9	51,0	48,6	41,4	34,5
10	55,7	51,8	49,6	42,9	36,1
20	55,6	52,2	49,9	44,0	38,0
30	55,6	52,6	50,4	45,1	40,0
40	55,6	52,8	51,0	45,9	
50	55,6	53,1	51,6	47,0	
60	55,7	53,3	52,0		
70	55,8	53,4			
80	55,8				



##### Inlet + casing

ESP (Pa)	Fan speed				
	5 H	4 M	3	2 L	1
0	59,0	54,1	52,0	45,2	38,7
10	58,7	54,9	53,0	46,7	40,3
20	58,7	55,3	53,3	47,8	42,3
30	58,6	55,7	53,8	48,9	44,3
40	58,6	55,9	54,4	49,7	
50	58,6	56,2	55,0	50,8	
60	58,8	56,4	55,4		
70	58,8	56,5			
80	58,8				



4D149951

# 9 Sound data

## 9 - 1 Sound Power Spectrum

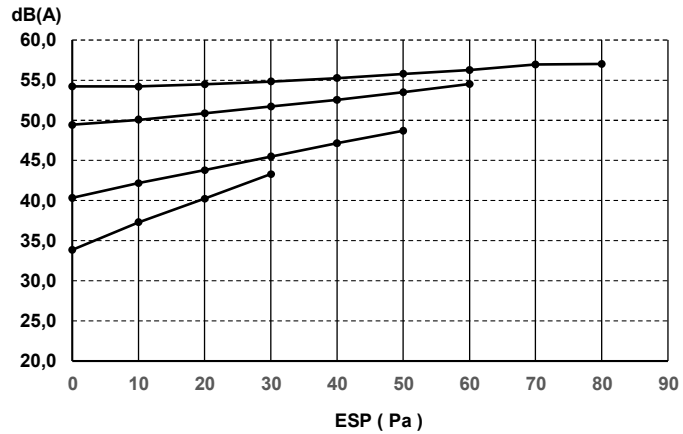
9

### FWE08FT FWE08FTR

#### Sound Power overall ( dBA ): FWE08FAT(N/T/V)5V1(-/R)

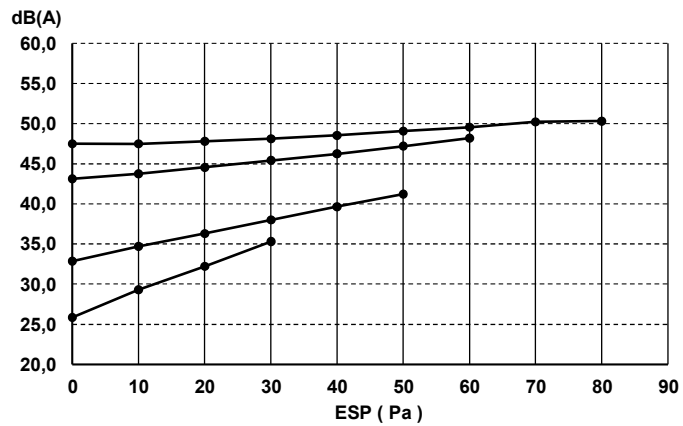
##### Whole casing

ESP (Pa)	Fan speed				
	5	4	3	2	1
0		H	M	L	
0		54,2	49,4	40,3	33,9
10		54,2	50,1	42,2	37,3
20		54,5	50,9	43,8	40,2
30		54,8	51,7	45,5	43,3
40		55,3	52,6	47,1	
50		55,8	53,5	48,7	
60		56,3	54,5		
70		56,9			
80		57,0			



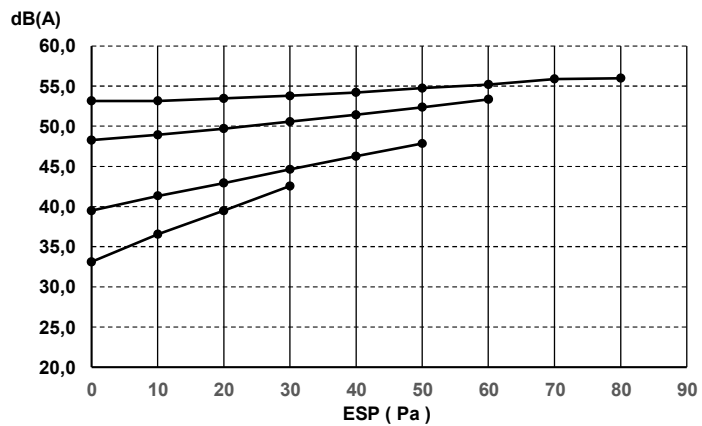
##### Discharge

ESP (Pa)	Fan speed				
	5	4	3	2	1
0		H	M	L	
0		47,5	43,1	32,9	25,9
10		47,5	43,7	34,7	29,3
20		47,8	44,6	36,3	32,2
30		48,1	45,4	38,0	35,3
40		48,6	46,2	39,7	
50		49,1	47,2	41,2	
60		49,5	48,2		
70		50,2			
80		50,3			



##### Inlet + casing

ESP (Pa)	Fan speed				
	5	4	3	2	1
0		H	M	L	
0		53,2	48,3	39,5	33,1
10		53,2	48,9	41,3	36,6
20		53,5	49,7	42,9	39,5
30		53,8	50,6	44,6	42,6
40		54,2	51,4	46,3	
50		54,7	52,4	47,8	
60		55,2	53,4		
70		55,9			
80		56,0			



4D149952

# 9 Sound data

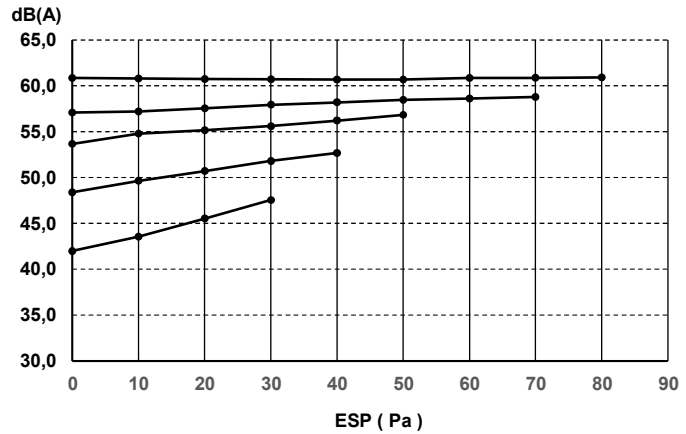
## 9 - 1 Sound Power Spectrum

### FWE10FT FWE10FTR

#### Sound Power overall ( dBA ): FWE10FAT(N/T/V)5V1(-/R)

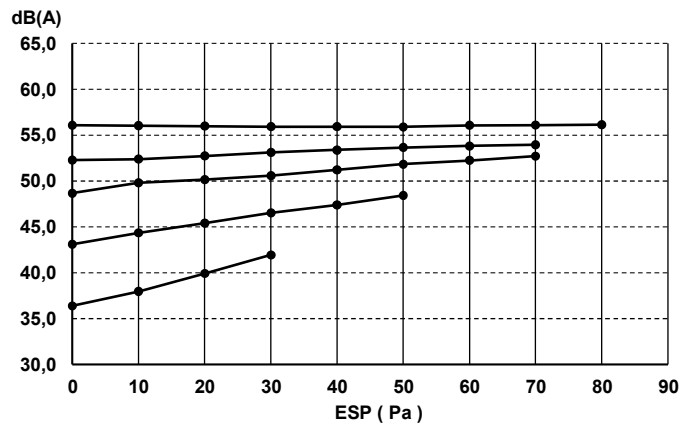
##### Whole casing

ESP (Pa)	Fan speed				
	5	4	3	2	1
		H	M	L	
0	60,9	57,1	53,7	48,4	42,0
10	60,8	57,2	54,8	49,6	43,6
20	60,8	57,6	55,2	50,7	45,5
30	60,7	58,0	55,6	51,8	47,6
40	60,7	58,2	56,2	52,7	
50	60,7	58,5	56,8	53,7	
60	60,9	58,6	57,3		
70	60,9	58,8	57,7		
80	60,9				



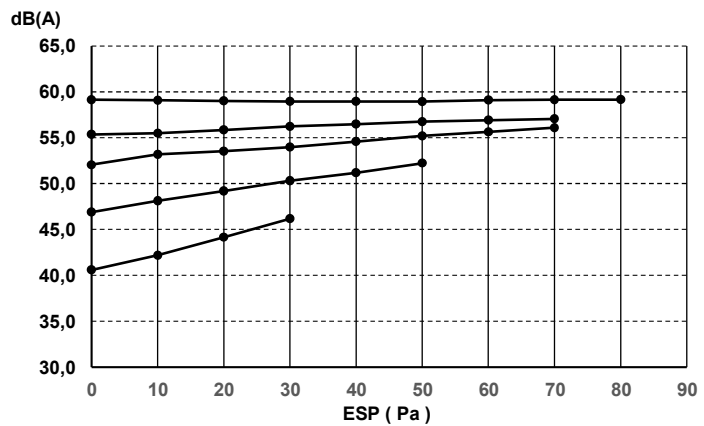
##### Discharge

ESP (Pa)	Fan speed				
	5	4	3	2	1
		H	M	L	
0	56,1	52,3	48,7	43,1	36,4
10	56,0	52,4	49,8	44,3	38,0
20	56,0	52,7	50,1	45,4	39,9
30	55,9	53,1	50,6	46,5	41,9
40	55,9	53,4	51,2	47,4	
50	55,9	53,7	51,8	48,4	
60	56,1	53,8	52,2		
70	56,1	54,0	52,7		
80	56,1				



##### Inlet + casing

ESP (Pa)	Fan speed				
	5	4	3	2	1
		H	M	L	
0	59,1	55,4	52,1	46,9	40,6
10	59,1	55,5	53,2	48,1	42,2
20	59,0	55,8	53,5	49,2	44,2
30	59,0	56,2	54,0	50,3	46,2
40	59,0	56,5	54,6	51,2	
50	58,9	56,8	55,2	52,2	
60	59,1	56,9	55,6		
70	59,1	57,1	56,1		
80	59,2				



4D149953

# 9 Sound data

## 9 - 1 Sound Power Spectrum

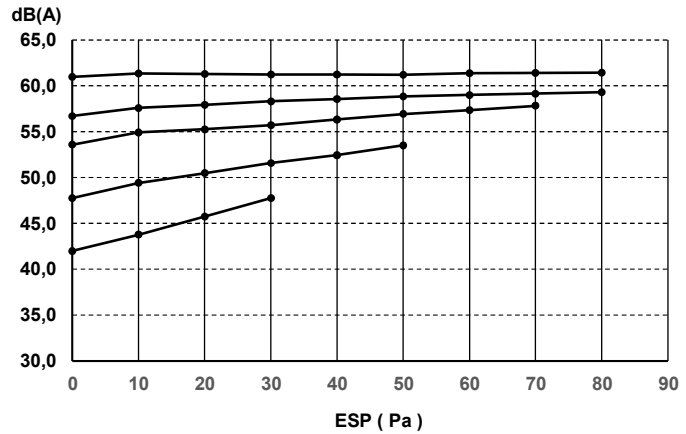
9

### FWE12FT FWE12FTR

#### Sound Power overall ( dBA ): FWE12FAT(N/T/V)5V1(-/R)

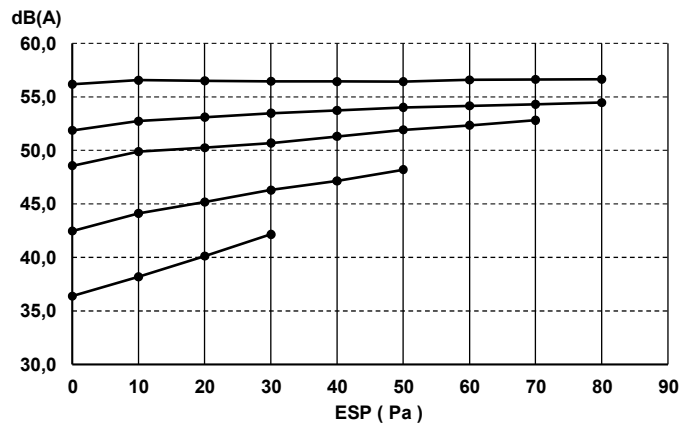
##### Whole casing

ESP (Pa)	Fan speed				
	5	4	3	2	1
	H	M		L	
0	61,0	56,7	53,6	47,8	42,0
10	61,4	57,6	54,9	49,4	43,8
20	61,3	57,9	55,3	50,5	45,8
30	61,3	58,3	55,7	51,6	47,8
40	61,2	58,6	56,3	52,5	
50	61,2	58,8	56,9	53,5	
60	61,4	59,0	57,4		
70	61,4	59,1	57,8		
80	61,5	59,3			



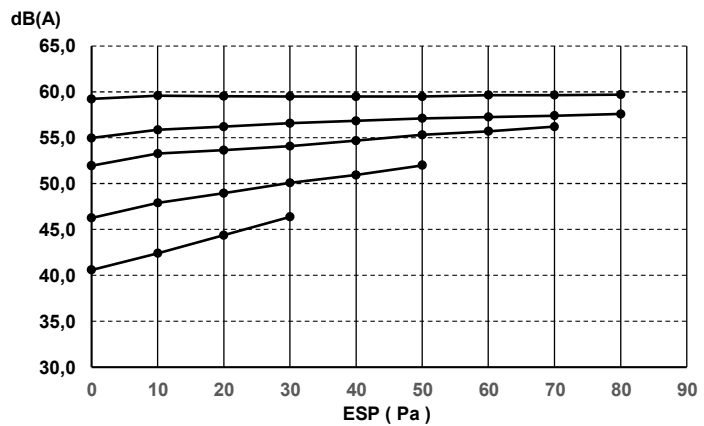
##### Discharge

ESP (Pa)	Fan speed				
	5	4	3	2	1
	H	M		L	
0	56,2	51,9	48,6	42,5	36,4
10	56,6	52,7	49,9	44,1	38,2
20	56,5	53,1	50,2	45,2	40,1
30	56,5	53,5	50,7	46,3	42,1
40	56,4	53,7	51,3	47,1	
50	56,4	54,0	51,9	48,2	
60	56,6	54,2	52,3		
70	56,6	54,3	52,8		
80	56,7	54,5			



##### Inlet + casing

ESP (Pa)	Fan speed				
	5	4	3	2	1
	H	M		L	
0	59,2	55,0	52,0	46,3	40,6
10	59,6	55,9	53,3	47,9	42,4
20	59,5	56,2	53,6	49,0	44,4
30	59,5	56,6	54,1	50,1	46,4
40	59,5	56,8	54,7	50,9	
50	59,5	57,1	55,3	52,0	
60	59,6	57,3	55,7		
70	59,7	57,4	56,2		
80	59,7	57,6			



4D149954

# 9 Sound data

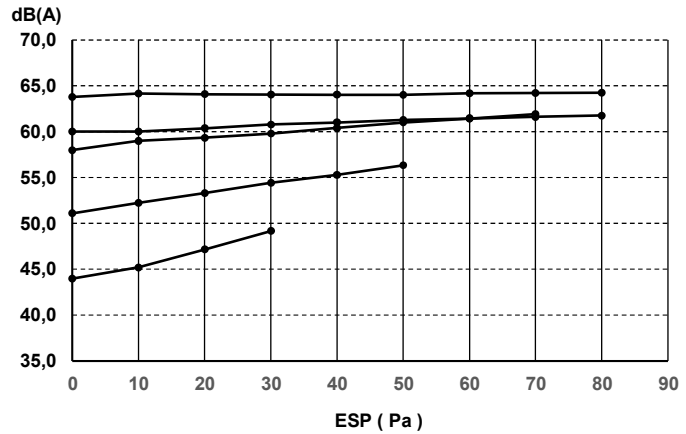
## 9 - 1 Sound Power Spectrum

### FWE14FT FWE14FTR

#### Sound Power overall ( dBA ): FWE14FAT(N/T/V)5V1(-/R)

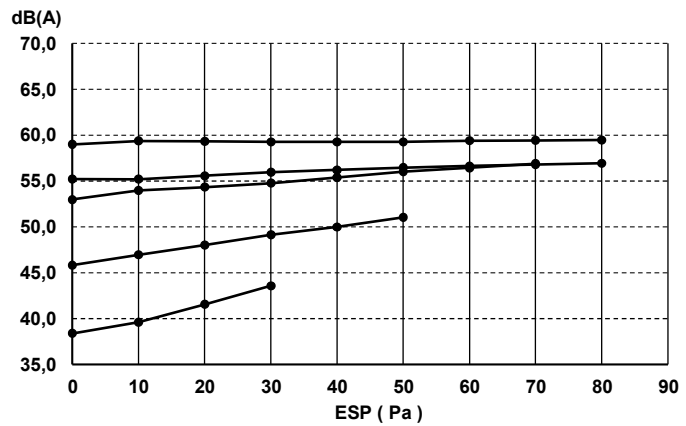
##### Whole casing

ESP (Pa)	Fan speed				
	5	4	3	2	1
		H	M	L	
0	63,8	60,0	58,0	51,1	44,0
10	64,2	60,0	59,0	52,3	45,2
20	64,1	60,4	59,4	53,3	47,2
30	64,1	60,8	59,8	54,4	49,2
40	64,0	61,0	60,4	55,3	
50	64,0	61,3	61,0	56,4	
60	64,2	61,5	61,4		
70	64,2	61,6	61,9		
80	64,3	61,8			



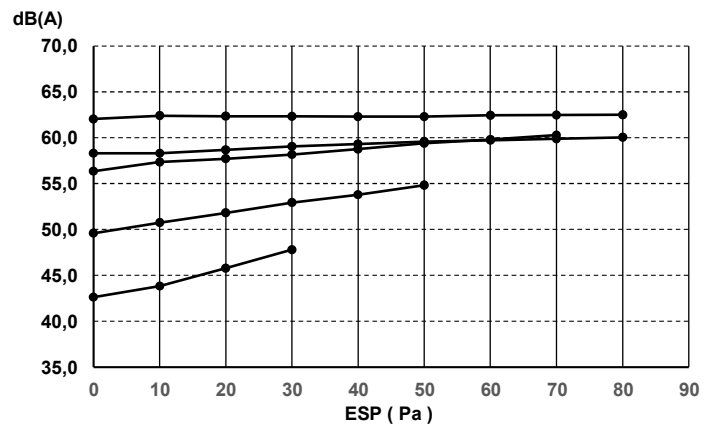
##### Discharge

ESP (Pa)	Fan speed				
	5	4	3	2	1
		H	M	L	
0	59,0	55,2	53,0	45,8	38,4
10	59,4	55,2	54,0	46,9	39,6
20	59,3	55,6	54,3	48,0	41,5
30	59,3	55,9	54,8	49,1	43,6
40	59,3	56,2	55,4	50,0	
50	59,2	56,5	56,0	51,0	
60	59,4	56,6	56,4		
70	59,4	56,8	56,9		
80	59,5	56,9			



##### Inlet + casing

ESP (Pa)	Fan speed				
	5	4	3	2	1
		H	M	L	
0	62,0	58,3	56,4	49,6	42,6
10	62,4	58,3	57,4	50,7	43,8
20	62,4	58,7	57,7	51,8	45,8
30	62,3	59,0	58,2	52,9	47,8
40	62,3	59,3	58,8	53,8	
50	62,3	59,6	59,4	54,8	
60	62,4	59,7	59,8		
70	62,5	59,9	60,3		
80	62,5	60,0			



4D149955

# 9 Sound data

## 9 - 1 Sound Power Spectrum

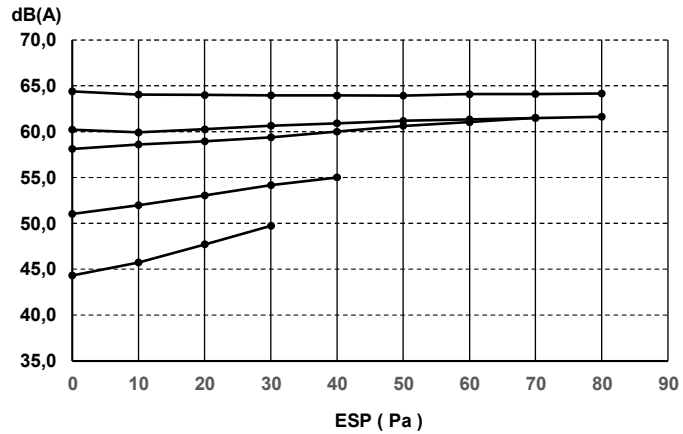
9

### FWE16FT FWE16FTR

#### Sound Power overall ( dBA ): FWE16FAT(N/T/V)5V1(-/R)

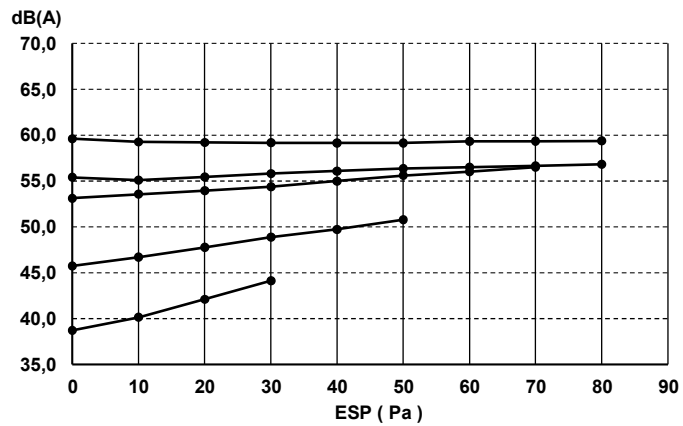
##### Whole casing

ESP (Pa)	Fan speed				
	5	4	3	2	1
	H	M		L	
0	64,4	60,2	58,1	51,0	44,3
10	64,1	59,9	58,6	52,0	45,8
20	64,0	60,3	59,0	53,1	47,7
30	64,0	60,7	59,4	54,2	49,7
40	63,9	60,9	60,0	55,0	
50	63,9	61,2	60,6	56,1	
60	64,1	61,3	61,0		
70	64,1	61,5	61,5		
80	64,2	61,7			



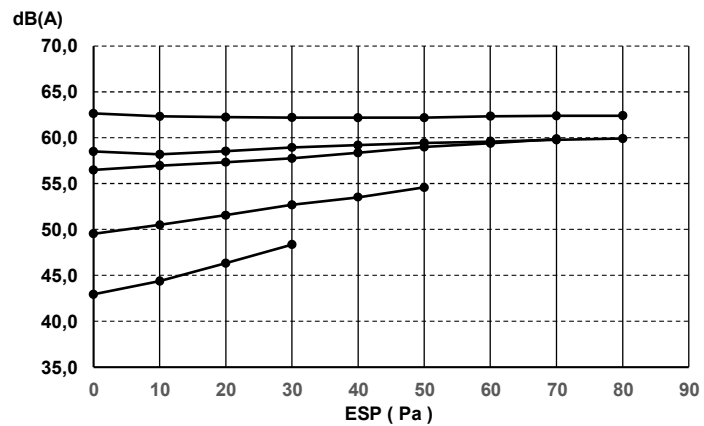
##### Discharge

ESP (Pa)	Fan speed				
	5	4	3	2	1
	H	M		L	
0	59,6	55,4	53,1	45,7	38,7
10	59,3	55,1	53,6	46,7	40,1
20	59,2	55,4	53,9	47,7	42,1
30	59,2	55,8	54,4	48,9	44,1
40	59,2	56,1	55,0	49,7	
50	59,1	56,4	55,6	50,8	
60	59,3	56,5	56,0		
70	59,3	56,7	56,5		
80	59,4	56,8			



##### Inlet + casing

ESP (Pa)	Fan speed				
	5	4	3	2	1
	H	M		L	
0	62,7	58,5	56,5	49,5	42,9
10	62,3	58,2	57,0	50,5	44,4
20	62,3	58,5	57,3	51,5	46,3
30	62,2	58,9	57,8	52,7	48,3
40	62,2	59,2	58,4	53,5	
50	62,2	59,5	59,0	54,6	
60	62,3	59,6	59,4		
70	62,4	59,8	59,9		
80	62,4	59,9			



4D149956



# 9 Sound data

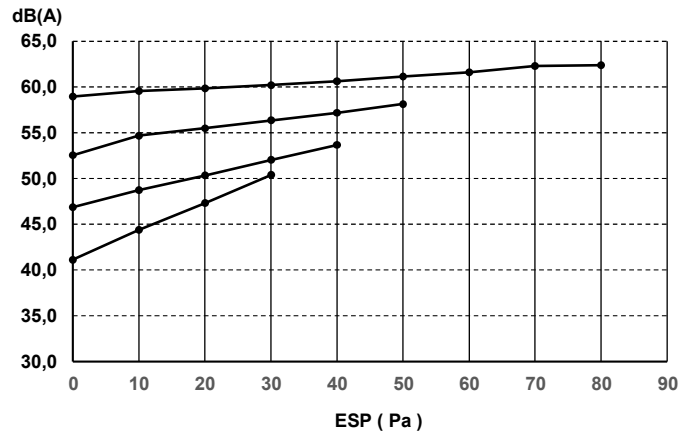
## 9 - 1 Sound Power Spectrum

### FWE20FT FWE20FTR

#### Sound Power overall ( dBA ) : FWE20FAT(N/T/V)5V1(-/R)

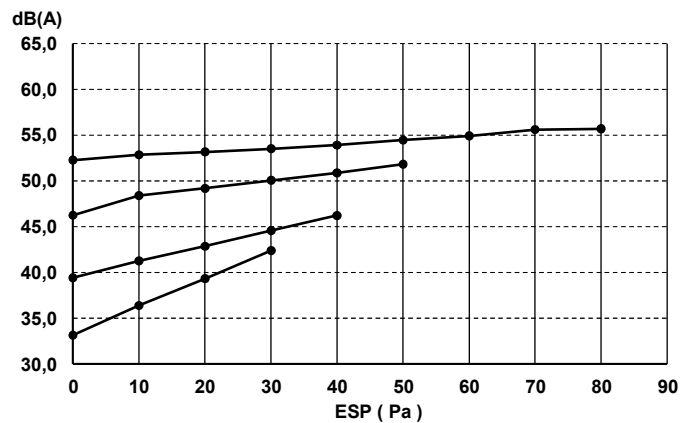
##### Whole casing

ESP (Pa)	Fan speed				
	5	4	3	2	1
0		H	M	L	
0		59,0	52,6	46,9	41,1
10		59,6	54,7	48,7	44,4
20		59,9	55,5	50,3	47,3
30		60,2	56,4	52,0	50,4
40		60,6	57,2	53,7	
50		61,2	58,1	55,3	
60		61,6	59,1		
70		62,3	60,2		
80		62,4			



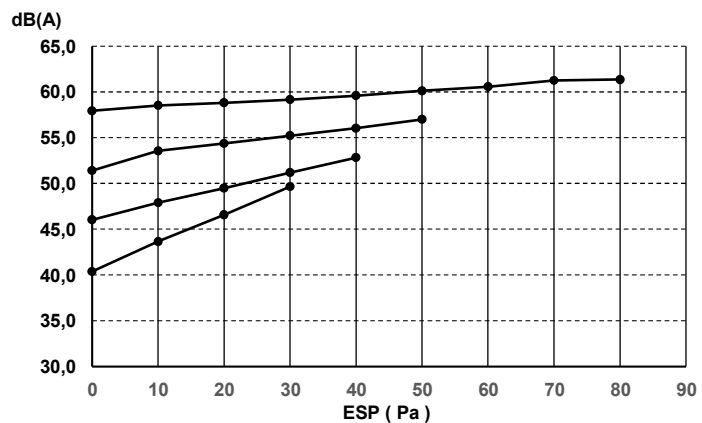
##### Discharge

ESP (Pa)	Fan speed				
	5	4	3	2	1
0		H	M	L	
0		52,3	46,2	39,4	33,1
10		52,9	48,4	41,3	36,4
20		53,2	49,2	42,9	39,3
30		53,5	50,0	44,6	42,4
40		53,9	50,9	46,2	
50		54,5	51,8	47,8	
60		54,9	52,8		
70		55,6	53,9		
80		55,7			



##### Inlet + casing

ESP (Pa)	Fan speed				
	5	4	3	2	1
0		H	M	L	
0		57,9	51,4	46,0	40,4
10		58,5	53,5	47,9	43,6
20		58,8	54,4	49,5	46,6
30		59,2	55,2	51,2	49,6
40		59,6	56,0	52,8	
50		60,1	57,0	54,4	
60		60,6	58,0		
70		61,3	59,0		
80		61,4			



4D149957

# 9 Sound data

## 9 - 1 Sound Power Spectrum

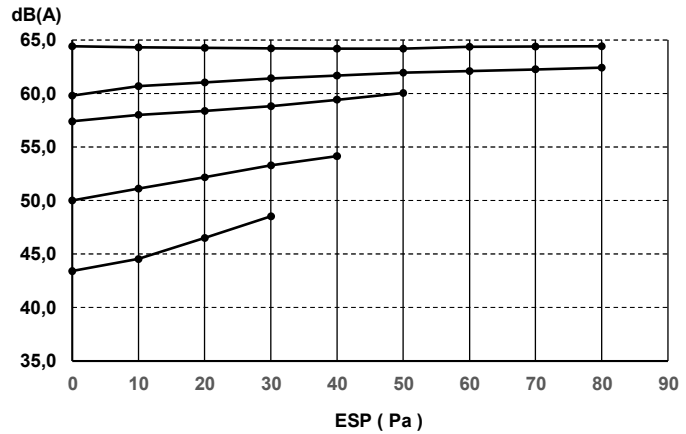
9

### FWE24FT FWE24FTR

#### Sound Power overall ( dBA ): FWE24FAT(N/T/V)5V1(-/R)

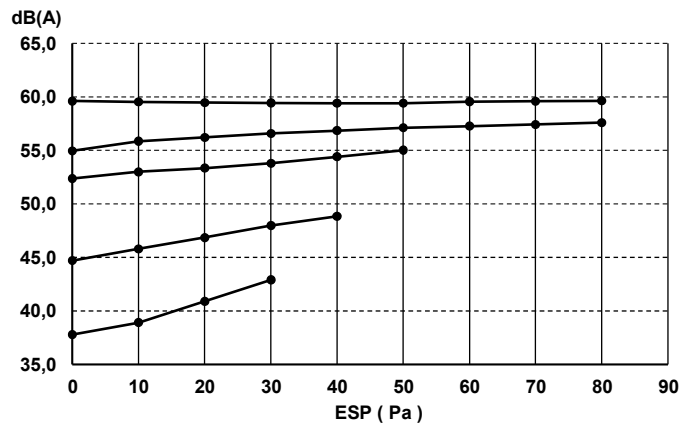
##### Whole casing

ESP (Pa)	Fan speed				
	5	4	3	2	1
	H	M		L	
0	64,4	59,8	57,4	50,0	43,4
10	64,3	60,7	58,0	51,1	44,5
20	64,3	61,0	58,4	52,2	46,5
30	64,2	61,4	58,8	53,3	48,5
40	64,2	61,7	59,4	54,1	
50	64,2	62,0	60,0	55,2	
60	64,4	62,1	60,5		
70	64,4	62,3	60,9		
80	64,4	62,4			



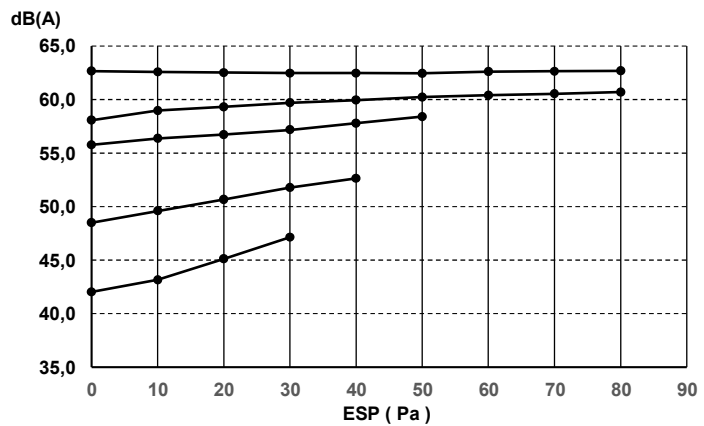
##### Discharge

ESP (Pa)	Fan speed				
	5	4	3	2	1
	H	M		L	
0	59,6	55,0	52,4	44,7	37,8
10	59,5	55,9	53,0	45,8	38,9
20	59,5	56,2	53,3	46,9	40,9
30	59,4	56,6	53,8	48,0	42,9
40	59,4	56,8	54,4	48,8	
50	59,4	57,1	55,0	49,9	
60	59,6	57,3	55,4		
70	59,6	57,4	55,9		
80	59,6	57,6			



##### Inlet + casing

ESP (Pa)	Fan speed				
	5	4	3	2	1
	H	M		L	
0	62,7	58,1	55,8	48,5	42,0
10	62,6	59,0	56,4	49,6	43,1
20	62,5	59,3	56,7	50,7	45,1
30	62,5	59,7	57,2	51,8	47,1
40	62,5	60,0	57,8	52,6	
50	62,4	60,2	58,4	53,7	
60	62,6	60,4	58,8		
70	62,6	60,5	59,3		
80	62,7	60,7			



4D149958











# 9 Sound data

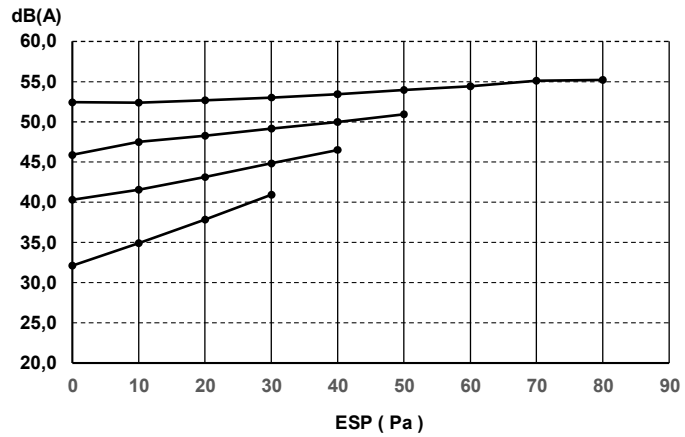
## 9 - 1 Sound Power Spectrum

FWE04FF / FWE04FFR

### Sound Power overall ( dBA ): FWE04FAF(N/T/V)5V1(-/R)

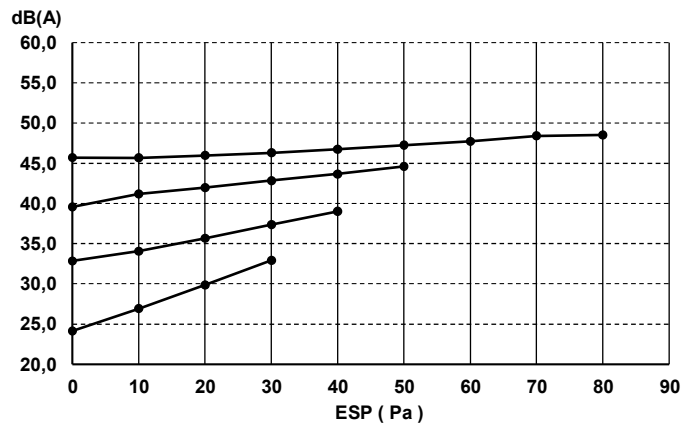
#### Whole casing

ESP (Pa)	Fan speed				
	5	4	3	2	1
0		52,4	45,9	40,3	32,1
10		52,4	47,5	41,5	34,9
20		52,7	48,3	43,1	37,9
30		53,0	49,2	44,8	40,9
40		53,4	50,0	46,5	
50		54,0	50,9		
60		54,4	51,9		
70		55,1			
80		55,2			



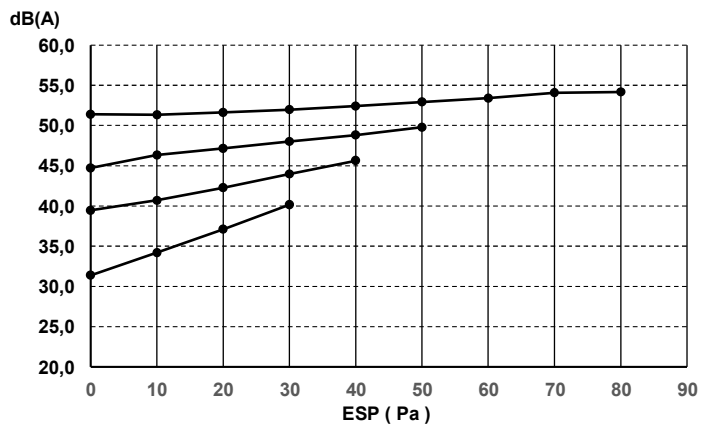
#### Discharge

ESP (Pa)	Fan speed			
	5	4	3	2
0		45,7	39,6	32,8
10		45,7	41,2	34,1
20		46,0	42,0	35,7
30		46,3	42,8	37,4
40		46,7	43,7	39,0
50		47,3	44,6	
60		47,7	45,6	
70		48,4		
80		48,5		



#### Inlet + casing

ESP (Pa)	Fan speed			
	5	4	3	2
0		51,4	44,7	39,5
10		51,3	46,3	40,7
20		51,6	47,1	42,3
30		52,0	48,0	44,0
40		52,4	48,8	45,6
50		52,9	49,8	
60		53,4	50,8	
70		54,1		
80		54,2		



4D149961



# 9 Sound data

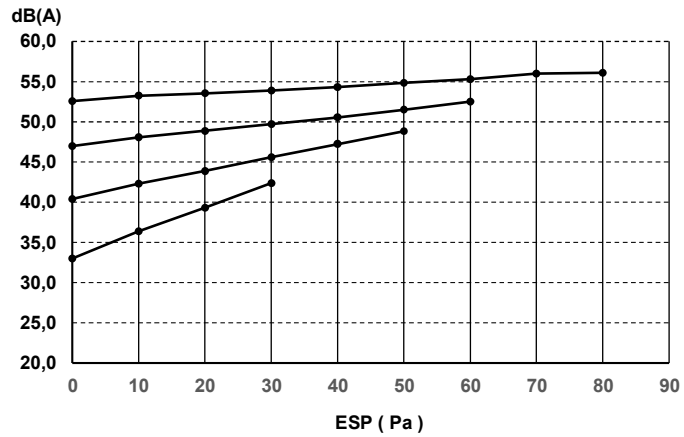
## 9 - 1 Sound Power Spectrum

FWE05FF / FWE05FFR

### Sound Power overall ( dBA ): FWE05FAF(N/T/V)5V1(-/R)

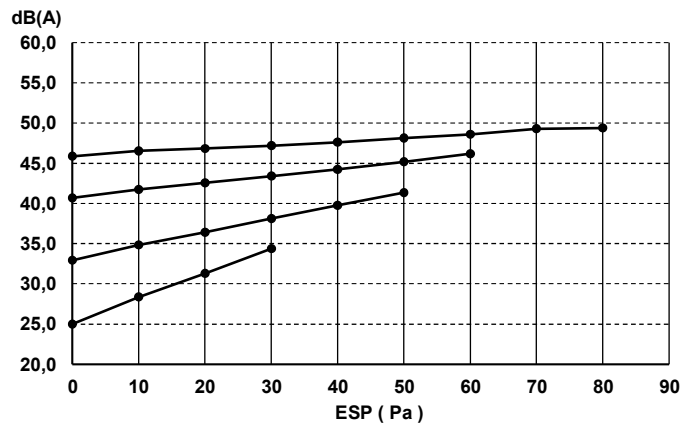
#### Whole casing

ESP (Pa)	Fan speed				
	5	4	3	2	1
0		52,6	47,0	40,4	33,0
10		53,3	48,1	42,3	36,4
20		53,6	48,9	43,9	39,3
30		53,9	49,7	45,6	42,4
40		54,3	50,6	47,3	
50		54,9	51,5	48,8	
60		55,3	52,5		
70		56,0			
80		56,1			



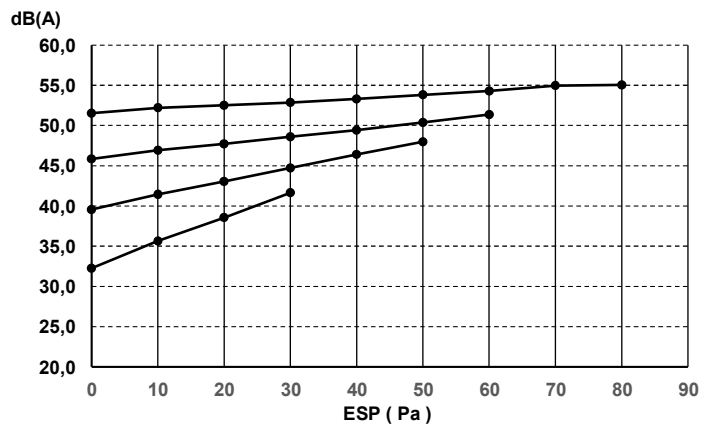
#### Discharge

ESP (Pa)	Fan speed			
	5	4	3	2
0		45,9	40,7	32,9
10		46,6	41,7	34,8
20		46,8	42,6	36,4
30		47,2	43,4	38,1
40		47,6	44,2	39,8
50		48,1	45,2	41,4
60		48,6	46,2	
70		49,3		
80		49,4		



#### Inlet + casing

ESP (Pa)	Fan speed			
	5	4	3	2
0		51,5	45,8	39,5
10		52,2	46,9	41,4
20		52,5	47,7	43,0
30		52,9	48,6	44,7
40		53,3	49,4	46,4
50		53,8	50,4	48,0
60		54,3	51,4	
70		55,0		
80		55,0		



4D149962

# 9 Sound data

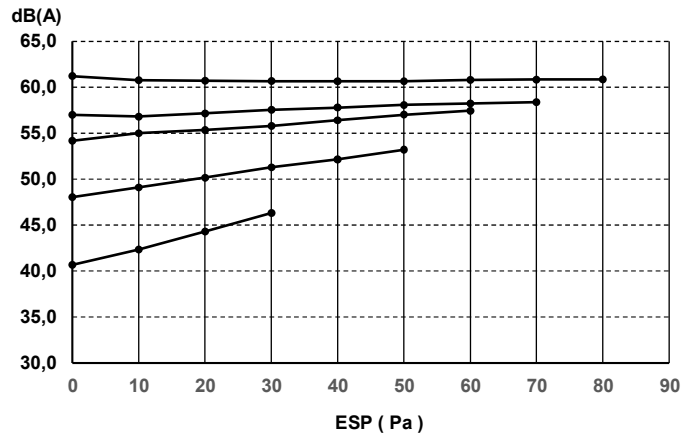
## 9 - 1 Sound Power Spectrum

FWE06FF / FWE06FFR

### Sound Power overall ( dBA ): FWE06FAF(N/T/V)5V1(-/R)

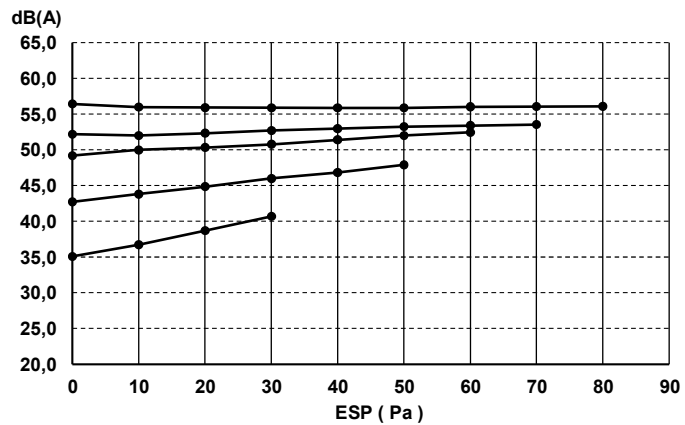
#### Whole casing

ESP (Pa)	Fan speed				
	5 H	4 M	3	2 L	1
0	61,2	57,0	54,2	48,0	40,7
10	60,8	56,8	55,0	49,1	42,3
20	60,7	57,2	55,4	50,2	44,3
30	60,7	57,6	55,8	51,3	46,3
40	60,7	57,8	56,4	52,2	
50	60,7	58,1	57,0	53,2	
60	60,8	58,2	57,5		
70	60,8	58,4			
80	60,9				



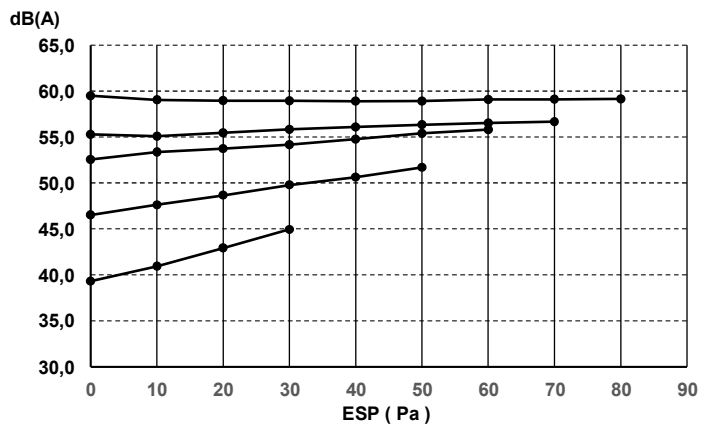
#### Discharge

ESP (Pa)	Fan speed				
	5 H	4 M	3	2 L	1
0	56,4	52,2	49,2	42,7	35,1
10	56,0	52,0	50,0	43,8	36,7
20	55,9	52,3	50,3	44,9	38,7
30	55,9	52,7	50,8	46,0	40,7
40	55,9	53,0	51,4	46,8	
50	55,9	53,3	52,0	47,9	
60	56,0	53,4	52,4		
70	56,0	53,6			
80	56,1				



#### Inlet + casing

ESP (Pa)	Fan speed				
	5 H	4 M	3	2 L	1
0	59,5	55,3	52,6	46,5	39,3
10	59,0	55,1	53,4	47,6	41,0
20	59,0	55,4	53,7	48,7	42,9
30	58,9	55,8	54,2	49,8	44,9
40	58,9	56,1	54,8	50,6	
50	58,9	56,4	55,4	51,7	
60	59,1	56,5	55,8		
70	59,1	56,7			
80	59,1				



4D149963

# 9 Sound data

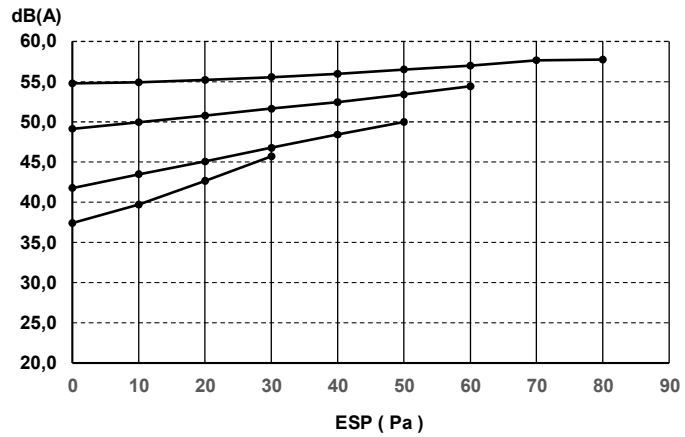
## 9 - 1 Sound Power Spectrum

FWE08FF / FWE08FFR

### Sound Power overall ( dBA ): FWE08FAF(N/T/V)5V1-(-/R)

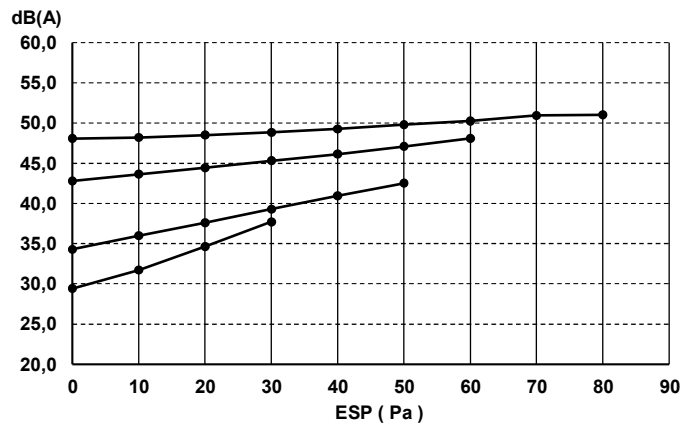
#### Whole casing

ESP (Pa)	Fan speed				
	5	4	3	2	1
0		54,8	49,1	41,8	37,4
10		54,9	50,0	43,5	39,7
20		55,2	50,8	45,1	42,7
30		55,6	51,6	46,8	45,7
40		56,0	52,5	48,4	
50		56,5	53,4	50,0	
60		57,0	54,4		
70		57,7			
80		57,8			



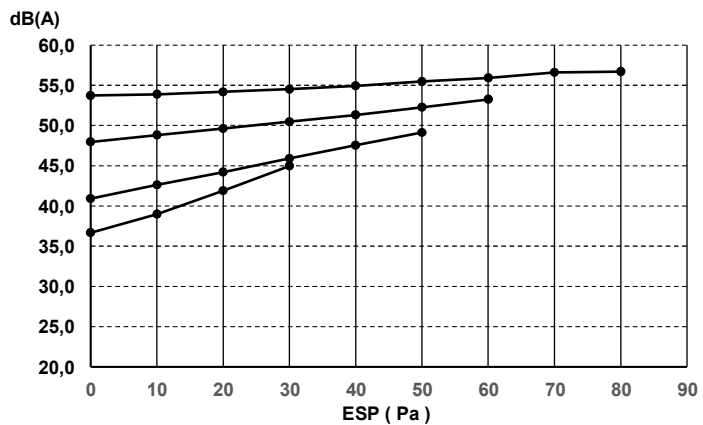
#### Discharge

ESP (Pa)	Fan speed			
	5	4	3	2
0		H	M	L
10		48,2	43,6	36,0
20		48,5	44,5	37,6
30		48,8	45,3	39,3
40		49,3	46,1	40,9
50		49,8	47,1	42,5
60		50,3	48,1	
70		51,0		
80		51,0		



#### Inlet + casing

ESP (Pa)	Fan speed			
	5	4	3	2
0		H	M	L
10		53,9	48,8	42,6
20		54,2	49,6	44,2
30		54,5	50,5	45,9
40		54,9	51,3	47,6
50		55,5	52,3	49,1
60		55,9	53,3	
70		56,6		
80		56,7		



4D149964

# 9 Sound data

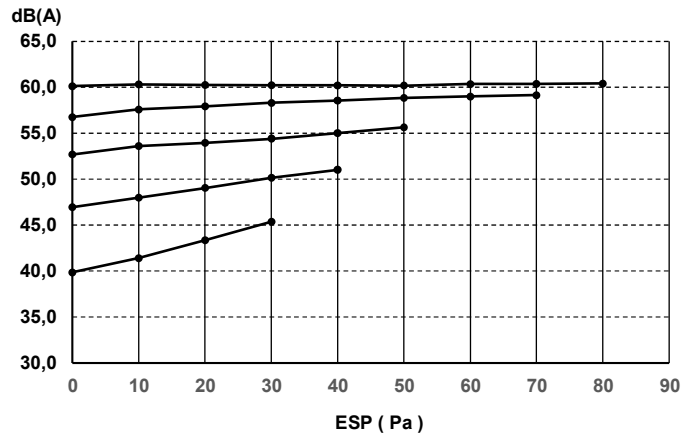
## 9 - 1 Sound Power Spectrum

FWE10FF / FWE10FFR

### Sound Power overall ( dBA ): FWE10FAF(N/T/V)5V1(-/R)

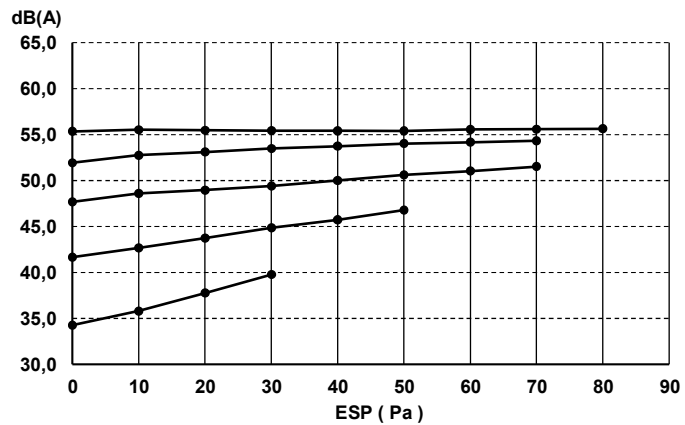
#### Whole casing

ESP (Pa)	Fan speed				
	5	4	3	2	1
0	60,1	56,8	52,7	47,0	39,9
10	60,3	57,6	53,6	48,0	41,4
20	60,3	57,9	54,0	49,0	43,4
30	60,2	58,3	54,4	50,2	45,4
40	60,2	58,6	55,0	51,0	
50	60,2	58,8	55,6	52,1	
60	60,4	59,0	56,1		
70	60,4	59,1	56,5		
80	60,4				



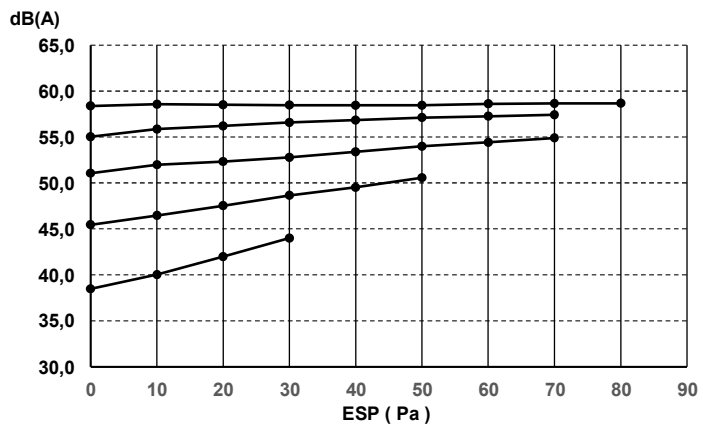
#### Discharge

ESP (Pa)	Fan speed			
	5	4	3	2
0	55,3	51,9	47,7	41,7
10	55,5	52,7	48,6	42,7
20	55,5	53,1	48,9	43,7
30	55,4	53,5	49,4	44,9
40	55,4	53,7	50,0	45,7
50	55,4	54,0	50,6	46,8
60	55,6	54,2	51,0	
70	55,6	54,3	51,5	
80	55,6			



#### Inlet + casing

ESP (Pa)	Fan speed			
	5	4	3	2
0	58,4	55,0	51,1	45,4
10	58,6	55,9	52,0	46,5
20	58,5	56,2	52,3	47,5
30	58,5	56,6	52,8	48,7
40	58,5	56,8	53,4	49,5
50	58,4	57,1	54,0	50,6
60	58,6	57,3	54,4	
70	58,6	57,4	54,9	
80	58,7			



4D149965

# 9 Sound data

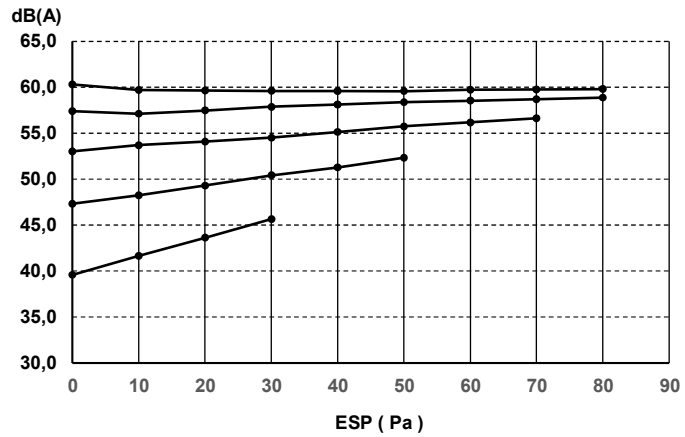
## 9 - 1 Sound Power Spectrum

### FWE12FF / FWE12FFR

#### Sound Power overall ( dBA ): FWE12FAF(N/T/V)5V1-(-/R)

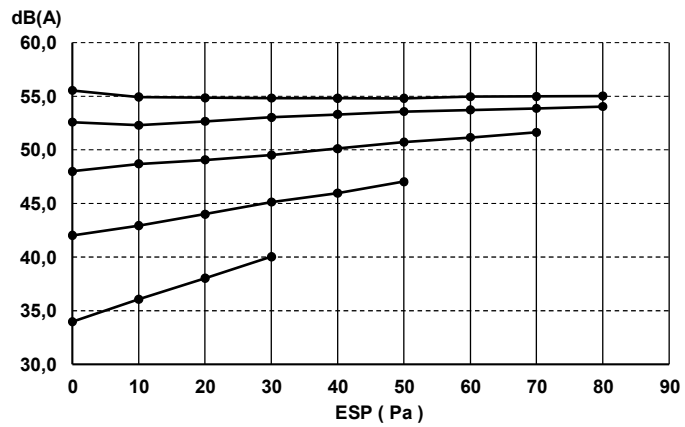
##### Whole casing

ESP (Pa)	Fan speed				
	5 H	4 M	3	2 L	1
0	60,3	57,4	53,0	47,3	39,6
10	59,7	57,1	53,7	48,2	41,7
20	59,7	57,5	54,1	49,3	43,6
30	59,6	57,9	54,5	50,4	45,7
40	59,6	58,1	55,1	51,3	
50	59,6	58,4	55,8	52,3	
60	59,8	58,6	56,2		
70	59,8	58,7	56,6		
80	59,8	58,9			



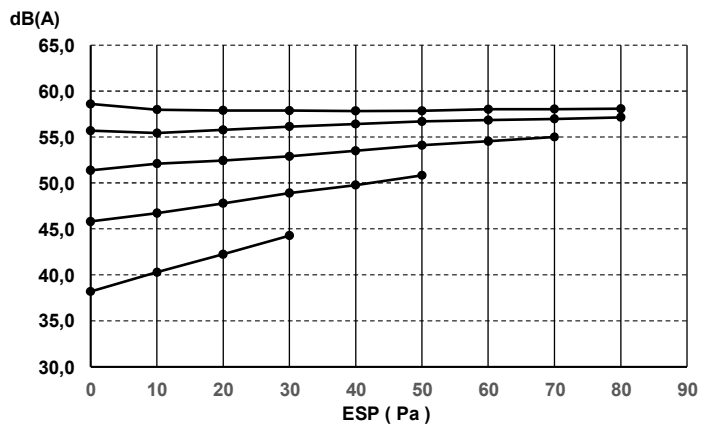
##### Discharge

ESP (Pa)	Fan speed				
	5 H	4 M	3	2 L	1
0	55,5	52,6	48,0	42,0	34,0
10	54,9	52,3	48,7	42,9	36,1
20	54,9	52,7	49,1	44,0	38,0
30	54,8	53,0	49,5	45,1	40,0
40	54,8	53,3	50,1	46,0	
50	54,8	53,6	50,7	47,0	
60	55,0	53,7	51,1		
70	55,0	53,9	51,6		
80	55,0	54,0			



##### Inlet + casing

ESP (Pa)	Fan speed				
	5 H	4 M	3	2 L	1
0	58,6	55,7	51,4	45,8	38,2
10	58,0	55,4	52,1	46,7	40,3
20	57,9	55,8	52,4	47,8	42,3
30	57,9	56,1	52,9	48,9	44,3
40	57,9	56,4	53,5	49,8	
50	57,8	56,7	54,1	50,8	
60	58,0	56,8	54,5		
70	58,0	57,0	55,0		
80	58,1	57,1			



4D149966

# 9 Sound data

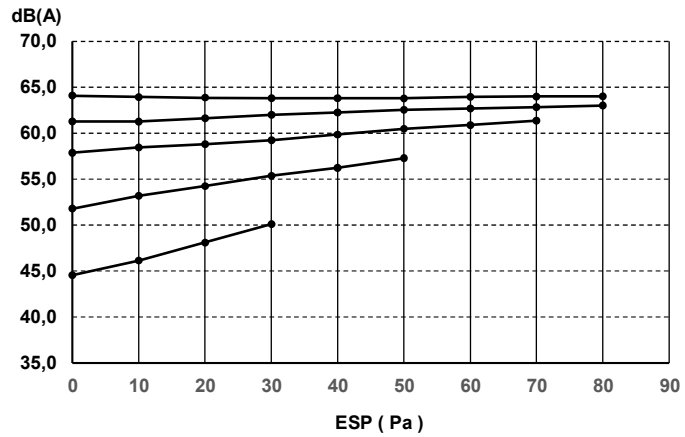
## 9 - 1 Sound Power Spectrum

FWE14FF / FWE14FFR

### Sound Power overall ( dBA ): FWE14FAF(N/T/V)5V1(-/R)

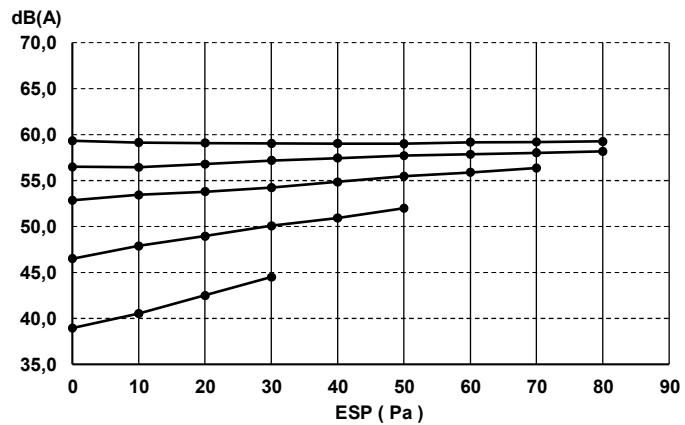
#### Whole casing

ESP (Pa)	Fan speed				
	5	4	3	2	1
	H	M	L		
0	64,1	61,3	57,9	51,8	44,6
10	63,9	61,3	58,5	53,2	46,1
20	63,9	61,6	58,8	54,3	48,1
30	63,8	62,0	59,3	55,4	50,1
40	63,8	62,3	59,9	56,2	
50	63,8	62,5	60,5	57,3	
60	64,0	62,7	60,9		
70	64,0	62,8	61,4		
80	64,0	63,0			



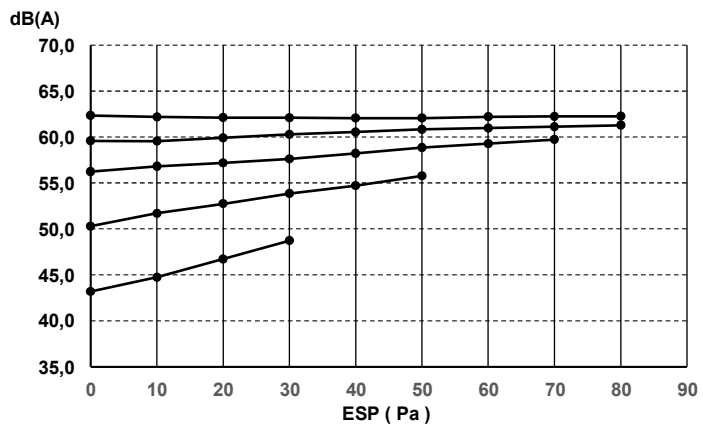
#### Discharge

ESP (Pa)	Fan speed			
	5	4	3	2
	H	M	L	
0	59,3	56,5	52,9	46,5
10	59,1	56,4	53,4	47,9
20	59,1	56,8	53,8	48,9
30	59,0	57,2	54,2	50,1
40	59,0	57,4	54,8	50,9
50	59,0	57,7	55,5	52,0
60	59,2	57,9	55,9	
70	59,2	58,0	56,4	
80	59,2	58,2		



#### Inlet + casing

ESP (Pa)	Fan speed			
	5	4	3	2
	H	M	L	
0	62,4	59,6	56,2	50,3
10	62,2	59,6	56,8	51,7
20	62,1	59,9	57,2	52,7
30	62,1	60,3	57,6	53,9
40	62,1	60,5	58,2	54,7
50	62,1	60,8	58,8	55,8
60	62,2	61,0	59,3	
70	62,2	61,1	59,7	
80	62,3	61,3		



4D149967

# 9 Sound data

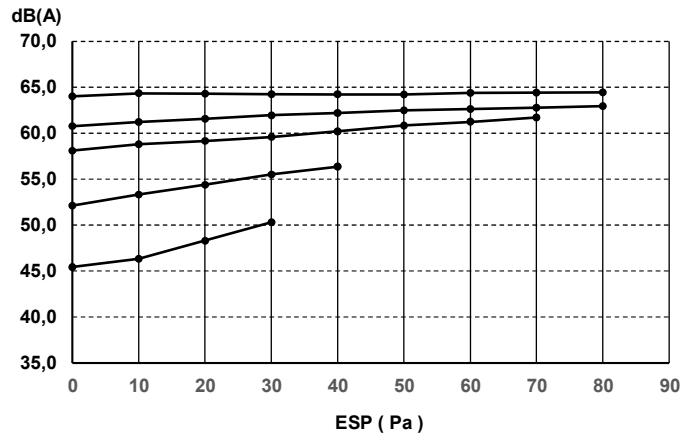
## 9 - 1 Sound Power Spectrum

### FWE16FF / FWE16FFR

#### Sound Power overall ( dBA ): FWE16FAF(N/T/V)5V1-(-/R)

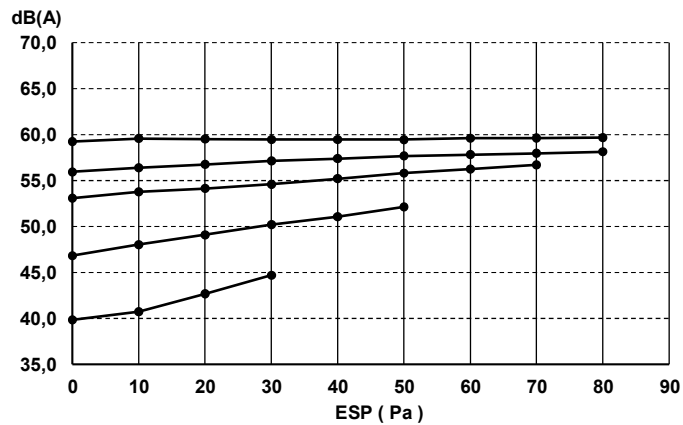
##### Whole casing

ESP (Pa)	Fan speed				
	5	4	3	2	1
	H	M		L	
0	64,0	60,8	58,1	52,1	45,4
10	64,4	61,2	58,8	53,3	46,3
20	64,3	61,6	59,2	54,4	48,3
30	64,3	62,0	59,6	55,5	50,3
40	64,2	62,2	60,2	56,4	
50	64,2	62,5	60,8	57,4	
60	64,4	62,6	61,3		
70	64,4	62,8	61,7		
80	64,5	63,0			



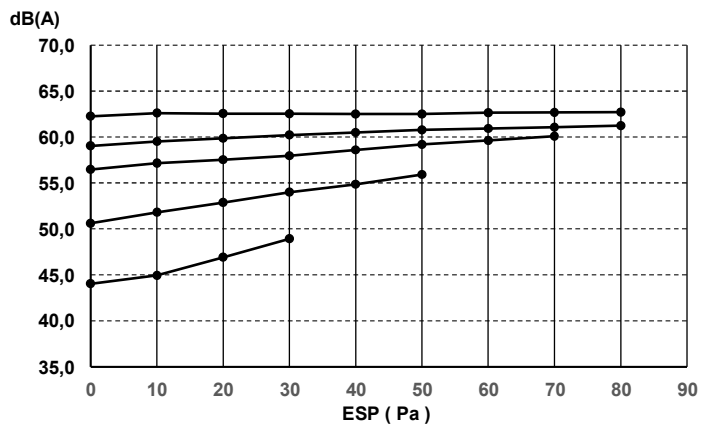
##### Discharge

ESP (Pa)	Fan speed				
	5	4	3	2	1
	H	M		L	
0	59,2	55,9	53,1	46,8	39,8
10	59,6	56,4	53,8	48,0	40,7
20	59,5	56,7	54,1	49,1	42,7
30	59,5	57,1	54,6	50,2	44,7
40	59,5	57,4	55,2	51,1	
50	59,4	57,7	55,8	52,1	
60	59,6	57,8	56,2		
70	59,6	58,0	56,7		
80	59,7	58,1			



##### Inlet + casing

ESP (Pa)	Fan speed				
	5	4	3	2	1
	H	M		L	
0	62,3	59,0	56,5	50,6	44,0
10	62,6	59,5	57,2	51,8	44,9
20	62,6	59,9	57,5	52,9	46,9
30	62,5	60,2	58,0	54,0	48,9
40	62,5	60,5	58,6	54,9	
50	62,5	60,8	59,2	55,9	
60	62,6	60,9	59,6		
70	62,7	61,1	60,1		
80	62,7	61,2			



4D149968

# 9 Sound data

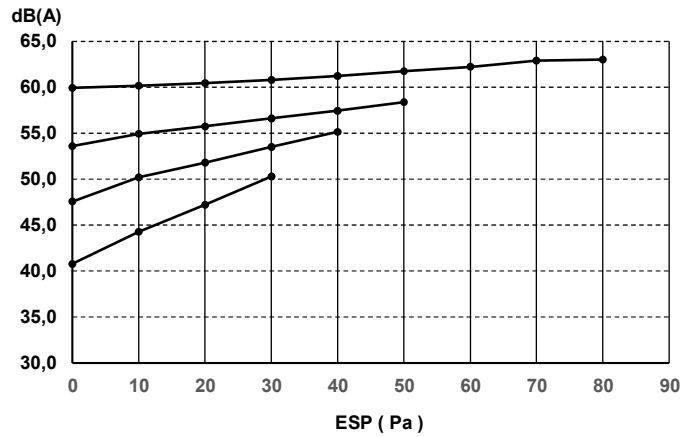
## 9 - 1 Sound Power Spectrum

FWE20FF / FWE20FFR

### Sound Power overall ( dBA ): FWE20FAF(N/T/V)5V1(-/R)

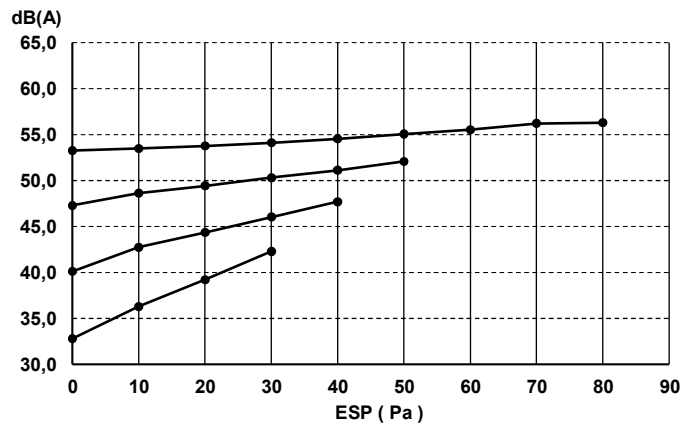
#### Whole casing

ESP (Pa)	Fan speed				
	5	4	3	2	1
0		60,0	53,6	47,6	40,8
10		60,2	55,0	50,2	44,3
20		60,5	55,8	51,8	47,2
30		60,8	56,6	53,5	50,3
40		61,2	57,4	55,2	
50		61,8	58,4	56,7	
60		62,2	59,4		
70		62,9	60,4		
80		63,0			



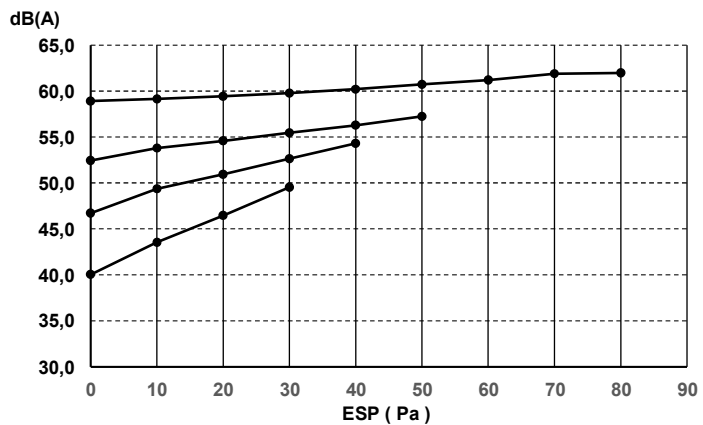
#### Discharge

ESP (Pa)	Fan speed			
	5	4	3	2
0		53,2	47,3	40,1
10		53,5	48,6	42,7
20		53,8	49,4	44,3
30		54,1	50,3	46,0
40		54,5	51,1	47,7
50		55,1	52,1	49,3
60		55,5	53,1	
70		56,2	54,1	
80		56,3		



#### Inlet + casing

ESP (Pa)	Fan speed			
	5	4	3	2
0		58,9	52,4	46,7
10		59,1	53,8	49,4
20		59,4	54,6	50,9
30		59,8	55,5	52,6
40		60,2	56,3	54,3
50		60,7	57,2	55,9
60		61,2	58,2	
70		61,9	59,3	
80		62,0		



4D149969



# 9 Sound data

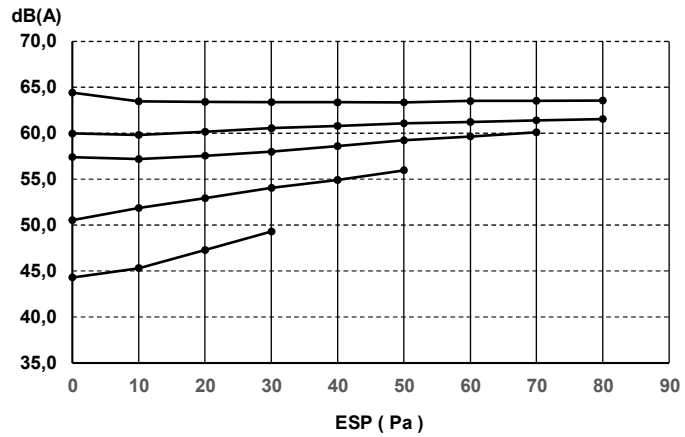
## 9 - 1 Sound Power Spectrum

FWE24FF / FWE24FFR

### Sound Power overall ( dBA ): FWE24FAF(N/T/V)5V1-(-/R)

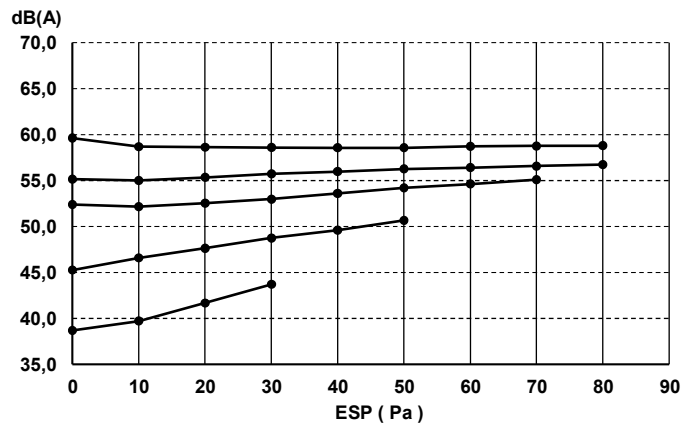
#### Whole casing

ESP (Pa)	Fan speed				
	5 H	4 M	3	2 L	1
0	64,4	60,0	57,4	50,6	44,3
10	63,5	59,8	57,2	51,9	45,3
20	63,4	60,2	57,6	52,9	47,3
30	63,4	60,6	58,0	54,1	49,3
40	63,4	60,8	58,6	54,9	
50	63,4	61,1	59,2	56,0	
60	63,5	61,2	59,6		
70	63,5	61,4	60,1		
80	63,6	61,6			



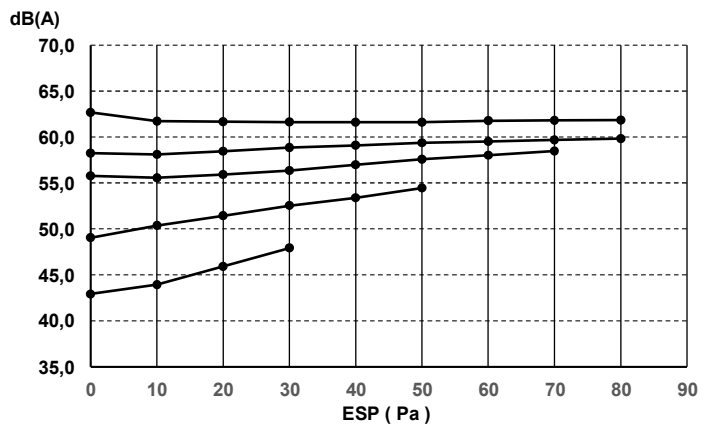
#### Discharge

ESP (Pa)	Fan speed				
	5 H	4 M	3	2 L	1
0	59,6	55,1	52,4	45,3	38,7
10	58,7	55,0	52,2	46,6	39,7
20	58,6	55,3	52,5	47,6	41,7
30	58,6	55,7	53,0	48,7	43,7
40	58,6	56,0	53,6	49,6	
50	58,6	56,3	54,2	50,7	
60	58,7	56,4	54,6		
70	58,7	56,6	55,1		
80	58,8	56,7			

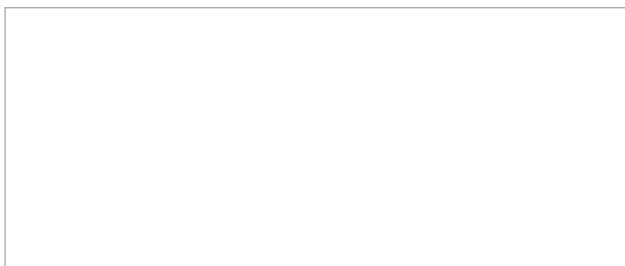


#### Inlet + casing

ESP (Pa)	Fan speed				
	5 H	4 M	3	2 L	1
0	62,7	58,3	55,8	49,0	42,9
10	61,7	58,1	55,6	50,4	43,9
20	61,7	58,5	55,9	51,4	45,9
30	61,6	58,8	56,4	52,5	47,9
40	61,6	59,1	57,0	53,4	
50	61,6	59,4	57,6	54,5	
60	61,8	59,5	58,0		
70	61,8	59,7	58,5		
80	61,8	59,8			



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