

TectoRF WSC2/WSF2



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1 TectoRF WSC2 PF

Designation	Unit	1800 PF	2200 PF	2800 PF	4100 PF	5500 PF
Cooling chamber volume up to ¹	m ³	30	40	55	90	130

1.1 Condensing unit

Designation	Unit	1800 PF	2200 PF	2800 PF	4100 PF	5500 PF
Compressor		Scroll				
Cooling capacity ²	W	1800	2200	2800	4100	5500
Cooling capacity ³	W	1600	1900	2300	3400	4600
Power consumption ⁴	W	740	1020	1030	1480	1960
Nominal current	A	8	10.7	5.4	7.7	10.8
Permissible ambient temperature ⁵	°C	-15 to +43				
Refrigerant ⁶		R513A				
GWP		573				
Voltage / phases / frequency	V / - / Hz	230 / 1 / 50		400 / 3 / 50		
Sound pressure level day / night ⁷	db(A)	34 / 34		39 / 36	40 / 37	
Dimensions W x D x H	mm	900 x 350 x 600		1030 x 425 x 840		
Weight	kg	56		76	79	91
Size of liquid collecting tank	Litre	1.8		4.4	4.4	4.4
Suction line connection		3/8"		18 mm	18 mm	22 mm
Liquid line connection		3/8"		12 mm		

1. Calculation bases for room size: Room temperature +5 °C, ambient temperature +25 °C, goods cooling 15 K, running time 16 h/day, goods turnover 1/7 per day, inspection and lighting 0.5 h/day
2. at condensing unit output, standard point: t₀ -5 °C, ambient 32 °C, superheat 10 K
3. at condensing unit output, standard point: t₀ -5 °C, ambient 43 °C, superheat 10 K
4. Standard point: t₀ -5 °C, ambient 32 °C, superheat 10 K
5. max. superheat before the compressor 20 K
6. based on AR5 / IPCC
7. Condensing unit, A-weighted equivalent sound pressure level at 10 m distance

1.2 Evaporator

Designation	Unit	1800 PF	2200 PF	2800 PF	4100 PF	5500 PF
Cooling chamber temperature control range	°C	+5 to +20				
Fans Ø	mm	315				
Number of fans		1	1	1	2	2
Cooling surface	m ²	5.3	7.9	7.9	10.6	21.2
Fin spacing	mm	7				
Volume flow	m ³ /h	1660	1580	1580	3320	3020
Power consumption	W	90				
Power consumption	A	0.4				
Type of defrosting		Air circulation				
Defrost water drain		G¾				
Air throw	m	10	9	9	11	9
Voltage / phases / frequency	V / - / Hz	230 / 1 / 50				
Pipe content	dm ³	2.1	3.3	3.3	3.8	7.6
Dimensions W x D x H	mm	752 / 430 / 455			1212 / 430 / 455	
Weight	kg	21	24	24	33	44
Input connection (solder)	mm	12	16			
Output connection (solder)	mm	12	18			22

1.3 Expansion valve

Designation	Unit	1800 PF	2200 PF	2800 PF	4100 PF	5500 PF
Type		thermostatic				
Valve inlet connection UNF (solder)		5/8"				
Outlet connection (solder)	mm	12				
Pressure compensation		internal	external			

1.4 Solenoid valve

Designation	Unit	1800 PF	2200 PF	2800 PF	4100 PF	5500 PF
Connection (solder)		3/8"				
kv value (water at Δp 1 bar)	m ³ /h	0.23				

1.5 Filter drier

Designation	Unit	1800 PF	2200 PF	2800 PF	4100 PF	5500 PF
Connection (solder)	mm	10				
Max. Length	mm	136				
Diameter	mm	69				

1.6 Sight glass

Designation	Unit	1800 PF	2200 PF	2800 PF	4100 PF	5500 PF
Connection (solder)	mm	10				
Length	mm	119				

1.7 Cabinet

Designation	Unit	1800 PF	2200 PF	2800 PF	4100 PF	5500 PF
Ambient temperature	°C	-5 to +40				
Power supply	V / - / Hz	230 / 1 / 50				
Protection class		IP65				
Dimensions W x H x D	mm	290 x 141 x 84.4				

2 TectoRF WSC2 PM

Designation	Unit	1700 PM	2100 PM	2600 PM	3700 PM	5100 PM	6400 PM
Cooling chamber volume up to ¹	m ³	25	35	45	70	105	140

2.1 Condensing unit

Designation	Unit	1700 PM	2100 PM	2600 PM	3700 PM	5100 PM	6400 PM
Compressor		Scroll					
Cooling capacity ²	W	1700	2100	2600	3700	5100	6400
Cooling capacity ³	W	1400	1800	2100	3100	4300	5400
Power consumption ⁴	W	740	1020	1030	1480	1960	2500
Nominal current	A	8	10.7	5.4	7.7	10.8	13.8
Permissible ambient temperature ⁵	°C	-15 to +43					
Refrigerant ⁶		R513A					
GWP		573					
Voltage / phases / frequency	V / - / Hz	230 / 1 / 50		400 / 3 / 50			
Sound pressure level day / night ⁷	db(A)	34 / 34		39 / 36	40 / 37		41 / 38
Dimensions W x D x H	mm	900 x 350 x 600		1030 x 425 x 840			1030 x 425 x 1245
Weight	kg	56		76	79	91	108
Size of liquid collecting tank	Litre	1.8		4.4			6.3
Suction line connection		3/8"		18 mm	18 mm	22 mm	
Liquid line connection		3/8"		12 mm			

1. Calculation bases for room size: Room temperature +2 °C, ambient temperature +25 °C, goods cooling 15 K, running time 16 h/day, goods turnover 1/7 per day, inspection and lighting 0.5 h/day
2. at condensing unit output, standard point: t_0 -7 °C, ambient 32 °C, superheat 10 K
3. at condensing unit output, standard point: t_0 -7 °C, ambient 43 °C, superheat 10 K
4. Standard point: t_0 -5 °C, ambient 32 °C, superheat 10 K
5. max. superheat before the compressor 20 K
6. based on AR5 / IPCC
7. Condensing unit, A-weighted equivalent sound pressure level at 10 m distance

2.2 Evaporator

Designation	Unit	1700 PM	2100 PM	2600 PM	3700 PM	5100 PM	6400 PM
Cooling chamber temperature control range	°C	+2 to +20					
Fans Ø	mm	315					
Number of fans		1	1	1	2	2	3
Cooling surface	m ²	5.3	7.9	10.6	10.6	15.9	23.8
Fin spacing	mm	7					
Volume flow	m ³ /h	1660	1580	1510	3320	3160	4740
Power consumption	W	90					
Power consumption	A	0.4					
Type of defrosting		Electrical					
El. defrosting capacity	W	970	1440	1440	1710	2570	3700
Defrost water drain		G ³ / ₄					
Air throw	m	10	9	8	11	9	10
Voltage / phases / frequency	V / - / Hz	230 / 1 / 50					
Pipe content	dm ³	2.1	3.3	3.3	3.8	5.7	8.2
Dimensions W x D x H	mm	752 / 430 / 455			1212 / 430 / 455		1672 / 430 / 455
Weight		21	24	28	33	37	53
Input connection (solder)	mm	12	16				
Output connection (solder)	mm	12	18				22

2.3 Expansion valve

Designation	Unit	1700 PM	2100 PM	2600 PM	3700 PM	5100 PM	6400 PM
Type		thermostatic					
Valve inlet connection UNF (solder)		5/8"					3/8"
Outlet connection (solder)	mm	12					5/8"
Pressure compensation		internal	external				

2.4 Solenoid valve

Designation	Unit	1700 PM	2100 PM	2600 PM	3700 PM	5100 PM	6400 PM
Connection (solder)		3/8"					12 mm
kv value (water at Δp 1 bar)	m ³ /h	0.23					0.8

2.5 Filter drier

Designation	Unit	1700 PM	2100 PM	2600 PM	3700 PM	5100 PM	6400 PM
Connection (solder)	mm	10					12
Max. Length	mm	136					146
Diameter	mm	69					

2.6 Sight glass

Designation	Unit	1700 PM	2100 PM	2600 PM	3700 PM	5100 PM	6400 PM	
Connection (solder)	mm	10					12	
Length	mm	119					146	

2.7 Cabinet

Designation	Unit	1700 PM	2100 PM	2600 PM	3700 PM	5100 PM	6400 PM
Ambient temperature	°C	-5 to +40					
Power supply	V / - / Hz	230 / 1 / 50					
Protection class		IP65					
Dimensions W x H x D	mm	290 x 141 x 84.4					

3 TectoRF WSC2 FV

Designation	Unit	2100 FV	2700 FV	3400 FV	5000 FV	6700 FV
Cooling chamber volume up to ¹	m ³	35	50	65	105	150

3.1 Condensing unit

Designation	Unit	2100 FV	2700 FV	3400 FV	5000 FV	6700 FV
Compressor		Scroll				
Cooling capacity ²	W	2100	2700	3400	5000	6700
Cooling capacity ³	W	1800	2300	2800	4200	5700
Power consumption ⁴	W	740	1020	1030	1480	1960
Nominal current	A	8	10.7	5.4	7.7	10.8
Permissible ambient temperature ⁵	°C	-15 to +43				
Refrigerant ⁶		R513A				
GWP		573				
Voltage / phases / frequency	V / - / Hz	230 / 1 / 50		400 / 3 / 50		
Sound pressure level day / night ⁷	db(A)	34 / 34		39 / 36	40 / 37	
Dimensions W x D x H	mm	900 x 350 x 600		1030 x 425 x 840		
Weight	kg	56		76	79	91
Size of liquid collecting tank	Litre	1.8		4.4		
Suction line connection		3/8"		18 mm	18 mm	22 mm
Liquid line connection		3/8"		12 mm		

1. Calculation bases for room size: Room temperature +8 °C, ambient temperature +25 °C, goods cooling 15 K, running time 16 h/day, goods turnover 1/7 per day, inspection and lighting 0.5 h/day
2. at condensing unit output, standard point: t₀ 0 °C, ambient 32 °C, superheat 10 K
3. at condensing unit output, standard point: t₀ 0 °C, ambient 43 °C, superheat 10 K
4. Standard point: t₀ -5 °C, ambient 32 °C, superheat 10 K
5. max. superheat before the compressor 20 K
6. based on AR5 / IPCC
7. Condensing unit, A-weighted equivalent sound pressure level at 10 m distance

3.2 Evaporator

Designation	Unit	2100 FV	2700 FV	3400 FV	5000 FV	6700 FV
Cooling chamber temperature control range	°C	+5 to +20				
Fans Ø	mm	315				
Number of fans		1	1	2	2	3
Cooling surface	m ²	8.9	13.3	13.3	26.6	26.6
Fin spacing	mm	4				
Volume flow	m ³ /h	1540	1420	3220	2840	4620
Power consumption	W	90				
Power consumption	A	0.4				
Type of defrosting		Air circulation				
Defrost water drain		G¾				
Air throw	m	8	7	9	8	9
Voltage / phases / frequency	V / - / Hz	230 / 1 / 50				
Pipe content	dm ³	2.2	3.3	2.9	5.8	5.5
Dimensions W x D x H	mm	752 / 430 / 455			1212 / 430 / 455	
Weight		22	25	35	42	53
Input connection (solder)	mm	16				
Output connection (solder)	mm	18			22	

3.3 Expansion valve

Designation	Unit	2100 FV	2700 FV	3400 FV	5000 FV	6700 FV
Type		thermostatic				
Valve inlet connection UNF (solder)		5/8"				
Outlet connection (solder)	mm	12				
Pressure compensation		external				

3.4 Solenoid valve

Designation	Unit	2100 FV	2700 FV	3400 FV	5000 FV	6700 FV
Connection (solder)		3/8"				12 mm
kv value (water at Δp 1 bar)	m ³ /h	0.23				0.8

3.5 Filter drier

Designation	Unit	2100 FV	2700 FV	3400 FV	5000 FV	6700 FV
Connection (solder)	mm	10				12
Max. Length	mm	136				146
Diameter	mm	69				

3.6 Sight glass

Designation	Unit	2100 FV	2700 FV	3400 FV	5000 FV	6700 FV
Connection (solder)	mm	10				12
Length	mm	119				146

3.7 Cabinet

Designation	Unit	2100 FV	2700 FV	3400 FV	5000 FV	6700 FV
Ambient temperature	°C	-5 to +40				
Power supply	V / - / Hz	230 / 1 / 50				
Protection class		IP65				
Dimensions W x H x D	mm	290 x 141 x 84.4				

4 TectoRF WSF2

Designation	Unit	1800	2600	3900	4500
Cooling chamber volume up to ¹	m ³	15	30	50	60

4.1 Condensing unit

Designation	Unit	1800	2600	3900	4500
Compressor		Scroll			
Cooling capacity ²	W	1800	2600	3900	4500
Cooling capacity ³	W	1500	2200	3300	3800
Power consumption ⁴	W	1540	1850	1480	1960
Nominal current	A	5.7	6.7	9.2	11.9
Permissible ambient temperature ⁵	°C	-15 to +43			
Refrigerant ⁶		R449A			
GWP		1282			
Voltage / phases / frequency	V / - / Hz	400 / 3 / 50			
Sound pressure level day / night ⁷	db(A)	39 / 36	40 / 37		41 / 38
Dimensions W x D x H	mm	1030 x 425 x 840			1030 x 425 x 1245
Weight	kg	79	81	93	106
Size of liquid collecting tank	Litre	4.4			6.3
Suction line connection	mm	18 mm		22 mm	
Liquid line connection	mm	12 mm			

1. Calculation bases for room size: Room temperature -21 °C, ambient temperature +25 °C, goods cooling 15 K, running time 16 h/day, goods turnover 1/7 per day, inspection and lighting 0.5 h/day
2. at condensing unit output, standard point: t_0 -30 °C, ambient 32 °C, superheat 10 K
3. at condensing unit output, standard point: t_0 -30 °C, ambient 43 °C, superheat 10 K
4. Standard point: t_0 -5 °C, ambient 32 °C, superheat 10 K
5. max. superheat before the compressor 20 K
6. based on AR5 / IPCC
7. Condensing unit, A-weighted equivalent sound pressure level at 10 m distance

4.2 Evaporator

Designation	Unit	1800	2600	3900	4500
Cooling chamber temperature control range	°C	-25 to -5			
Fans Ø	mm	315			
Number of fans		1		2	
Cooling surface	m ²	7.9	10.6	15.9	
Fin spacing	mm	7			
Volume flow	m ³ /h	1580	1510	3160	
Power consumption	W	90			
Power consumption	A	0.4			
Type of defrosting		Electrical			
Defrost water drain		G ³ / ₄			
Air throw	m	9	8	10	
Voltage / phases / frequency	V / - / Hz	230 / 1 / 50			
Pipe content	dm ³	3.3	4.3	5.7	
Dimensions W x D x H	mm	752 / 430 / 455		1212 / 430 / 455	
Weight		24	28	37	
Input connection (solder)	mm	16			
Output connection (solder)	mm	18			

4.3 Expansion valve

Designation	Unit	1800	2600	3900	4500
Type		thermostatic			
Valve inlet connection UNF (solder)		5/8"			
Outlet connection (solder)	mm	12			
Pressure compensation		external			

4.4 Solenoid valve

Designation	Unit	1800	2600	3900	4500
Connection (solder)		3/8"			
kv value (water at Δp 1 bar)	m ³ /h	0.23			

4.5 Filter drier

Designation	Unit	1800	2600	3900	4500
Connection (solder)	mm	10			
Max. Length	mm	136			
Diameter	mm	69			

4.6 Sight glass

Designation	Unit	1800	2600	3900	4500
Connection (solder)	mm	10			
Length	mm	119			

4.7 Cabinet

Designation	Unit	1800	2600	3900	4500
Ambient temperature	°C	-5 to +40			
Power supply	V / - / Hz	230 / 1 / 50			
Protection class		IP65			
Dimensions W x H x D	mm	290 x 141 x 84.4			



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froid.viessmann.be

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Germany
kuehlen.viessmann.de

Estonia
kylm.viessmann.ee

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kylma.viessmann.fi

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cooling.viessmann.co.uk

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cooling.viessmann.com

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saldymas.viessmann.lt

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