

**STULZ**

CLIMATE. CUSTOMIZED.



## **STULZ Explorer**

### **Technical Data**

## Technical Data – WPA-060 ... WPA-080

Model		WPA-060	WPA-060SL	WPA-060FC	WPA-070	WPA-070SL	WPA-070FC	WPA-080
<b>General</b>								
Cooling capacity	kW	165.5	160.6	196.0	187.5	180.7	224.2	222.6
Working limits ambient temperature	°C	-10 / +45	-10 / +45	-10 / +45	-10 / +45	-5 / +45	-10 / +45	-10 / +45
Working limits water outlet temperature	°C	-5* / +20	-5* / +20	-5* / +20	-5* / +20	-5* / +20	-5* / +20	-5* / +20
Refrigerant	Type	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Power supply	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Secondary power supply	Vac	230	230	230	230	230	230	230
Max. power consumption	kW	79.88	78.60	92.73	92.62	91.37	105.47	109.76
Max. absorbed current	A	138.96	135.76	161.30	160.96	157.76	183.30	191.60
Starting current	A	268.66	265.46	282.30	337.36	334.16	349.30	368.00
Height x width x depth	mm	2,406x2,208x3,140	2,406x2,208x3,140	2,406x2,208x3,140	2,406x2,208x3,140	2,406x2,208x3,140	2,406x2,208x3,140	2,406x2,208x3,140
Noise level	dB(A)	57,8	49,9	58,1	57,8	49,9	58,1	58,1
<b>Compressor</b>								
Scroll compressor	n°	4	4	4	4	4	4	4
Max. power consumption	kW	76.52	76.52	76.52	89.26	89.26	89.26	102.00
Max. absorbed current	A	132	132	132	154	154	154	176
Power consumption W7L35	kW	49.8	52.6	40.7	61.0	65.0	49.4	68.1
Absorbed current W7L35	A	82.3	86.1	69.2	100.4	106.2	83.6	108.6
<b>Fans</b>								
Axial fans	n°	4 x ø710	4 x ø710	4x ø800	4 x ø710	4 x ø710	4 x ø800	4 x ø800
Fan flow	m³/h	57,600	47,840	85,500	57,600	47,840	85,500	85,500
Power consumption	kW	3.36	3.20	5.46	3.36	3.20	5.46	5.46
Max. absorbed current	A	6.96	3.76	15.60	6.96	3.76	15.60	15.60
<b>Hydraulic</b>								
Coolant liquid	Type	Water	Water	Eth. Glycol 30%	Water	Water	Eth. Glycol 30%	Water
Inlet temperature	°C	12	12	15	12	12	15	12
Outlet temperature	°C	7	7	10	7	7	10	7
Water flow	m³/h	28.42	27.59	36.46	32.22	31.08	41.72	38.22
Pressure drops	kPa	39.9	37.8	74.1	39.8	37.3	75.2	37.2
Water connections	Inches	3	3	3	3	3	3	3
<b>FC</b>								
Air temperature (TOTAL FC)	°C			5			5	
Inlet fluid temperature	°C			15			15	

## Technical Data – WPA-080SL ... WPA-100SL

Model		WPA-080SL	WPA-080FC	WPA-090	WPA-090SL	WPA-090FC	WPA-100	WPA-100SL
<b>General</b>								
Cooling capacity	kW	216.6	263.1	245.2	237.4	293.4	266.5	276.0
Working limits ambient temperature	°C	-5 / +45	-10 / +45	-10 / +45	-10 / +45	-10 / +45	-10 / +45	-5 / +45
Working limits water outlet temperature	°C	-5* / +20	-5* / +20	-5* / +20	-5* / +20	-5* / +20	-5* / +20	-5* / +20
Refrigerant	Type	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Power supply	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Secondary power supply	Vac	230	230	230	230	230	230	230
Max. power consumption	kW	106.83	122.09	121.16	118.19	135.27	132.56	132.01
Max. absorbed current	A	184.92	213.10	209.60	202.92	234.20	227.60	225.38
Starting current	A	361.32	379.10	380.3	373.62	391.20	398.30	396.08
Height x width x depth	mm	2,406x2,208x3,140	2,406x2,208x4,447	2,406x2,208x3,140	2,406x2,208x3,140	2,406x2,208x4,447	2,406x2,208x3,140	2,406x2,206x4,447
Noise level	dB(A)	50.7	58.3	58.2	51.5	58.6	58.2	52.0
<b>Compressor</b>								
Scroll compressor	n°	4	4	4	4	4	4	4
Max. power consumption	kW	102.0	102.0	113.4	113.4	113.4	124.8	124.8
Max. absorbed current	A	176	176	194	194	194	212	212
Power consumption W7L35	kW	71.6	55.9	77.5	81.9	63.3	86.0	81.1
Absorbed current W7L35	A	113.5	92.2	122.7	129.1	102.9	137.9	130.4
<b>Fans</b>								
Axial fans	n°	4 x ø800	6 x ø800	4 x ø800	4 x ø800	6 x ø800	4 x ø800	6 x ø800
Fan flow	m³/h	71,036	128,250	85,500	71,036	128,250	85,500	106,554
Power consumption	kW	5.20	8.19	5.46	5.20	8.19	5.46	7.80
Max. absorbed current	A	8.92	23.40	15.60	8.92	23.40	15.60	13.38
<b>Hydraulic</b>								
Coolant liquid	Type	Water	Eth. Glycol 30%	Water	Water	Eth. Glycol 30%	Water	Water
Inlet temperature	°C	12	15	12	12	15	12	12
Outlet temperature	°C	7	10	7	7	10	7	7
Water flow	m³/h	37.21	48.94	42.12	40.82	54.59	45.79	47.42
Pressure drops	kPa	35.5	68.9	33.7	31.8	63.8	31.9	34.0
Water connections	Inches	3	3	3	3	3	3	3
<b>FC</b>								
Air temperature (TOTAL FC)	°C		5			5		
Inlet fluid temperature	°C		15			15		

Evaporator water (in/out) 12/7 °C; condenser air (in) 35 °C;  
 30% glycol-water solution Evaporator solution IN/OUT= 15/10 °C; condenser air 30 °C  
 Average sound pressure level at 10 m distance; unit in a free field on a reflective surface.  
 Unit at full capacity According to ISO 3744 Pump contribution is not considered.  
 \*In case of applications with an output fluid temperature below 0 °C, please contact the manufacturer.

## Technical Data – WPA-100-FC ... WPA-140

Model		WPA-100FC	WPA-110	WPA-110SL	WPA-110FC	WPA-120	WPA-120SL	WPA-140
<b>General</b>								
Cooling capacity	kW	322.7	318.6	310.3	364.3	353.1	342.6	385.1
Working limits ambient temperature	°C	-10 / +45	-10 / +45	-5 / +45	-10 / +45	-10 / +45	-10 / +45	-10 / +45
Working limits water outlet temperature	°C	-5* / +20	-5* / +20	-5* / +20	-5* / +20	-5* / +20	-5* / +20	-5* / +20
Refrigerant	Type	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Power supply	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Secondary power supply	Vac	230	230	230	230	230	230	230
Max. power consumption	kW	146.67	150.64	146.29	162.84	165.07	160.80	181.27
Max. absorbed current	A	252.20	261.40	251.38	283.30	287.40	277.00	317.40
Starting current	A	409.20	499.20	489.18	504.30	525.20	515.00	551.20
Height x width x depth	mm	2,406x2,208x4,447	2,406x2,208x4,447	2,406x2,208x4,447	2,406x2,208x4,447	2,406x2,208x4,447	2,406x2,208x4,447	2,406x2,208x4,447
Noise level	dB(A)	58.6	59.9	52.6	59.9	60.2	53.4	60.8
<b>Compressor</b>								
Scroll compressor	n°	4	4	4	4	4	4	4
Max. power consumption	kW	124.8	139.0	139.0	139.0	153.2	153.2	169.4
Max. absorbed current	A	212	238	238	238	264	264	294
Power consumption W7L35	kW	70.0	92.2	96.4	83.5	106.0	111.3	119.3
Absorbed current W7L35	A	114.3	145.0	151.1	132.7	168.5	176.3	195.2
<b>Fans</b>								
Axial fans	n°	6 x ø800	6 x ø800	6 x ø800	6 x ø800	6 x ø800	6 x ø800	6 x ø800
Fan flow	m³/h	128,250	128,250	106,554	128,250	128,250	106,554	128,250
Power consumption	kW	8.19	8.19	7.80	8.19	8.19	7.80	8.19
Max. absorbed current	A	23.40	23.40	13.38	23.40	23.40	13.38	23.40
<b>Hydraulic</b>								
Coolant liquid	Type	Eth. Glycol 30%	Water	Water	Eth. Glycol 30%	Water	Water	Water
Inlet temperature	°C	15	12	12	15	12	12	12
Outlet temperature	°C	10	7	7	10	7	7	7
Water flow	m³/h	60.03	54.70	53.27	67.78	60.63	58.84	66.14
Pressure drops	kPa	61.7	44.5	42.4	76.6	41.5	39.3	34.8
Water connections	Inches	3	4	4	4	4	4	4
<b>FC</b>								
Air temperature (TOTAL FC)	°C	5			5			
Inlet fluid temperature	°C	15			15			

## Technical Data – WPA-100-FC ... WPA-140

Model		WPA-140SL	WPA-160	WPA-160SL	WPA-180	WPA-180SL	WPA-200	WPA-200SL
<b>General</b>								
Cooling capacity	kW	391.7	432.0	419.5	504.0	507.3	559.3	563.4
Working limits ambient temperature	°C	-10 / +45	-10 / +45	-10 / +45	-10 / +45	-10 / +45	-10 / +45	-10 / +45
Working limits water outlet temperature	°C	-5* / +20	-5* / +20	-5* / +20	-5* / +20	-5* / +20	-5* / +20	-5* / +20
Refrigerant	Type	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Power supply	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Secondary power supply	Vac	230	230	230	230	230	230	230
Max. power consumption	kW	184.80	201.12	195.00	245.30	241.90	275.30	271.90
Max. absorbed current	A	325.0	355.2	342.0	427.2	418.0	487.2	478.0
Starting current	A	559.0	572.2	559.0	648.2	639.0	678.2	669.0
Height x width x depth	mm	2,406x2,208x5,820	2,406x2,208x5,820	2,406x2,208x5,820	2,406x2,208x5,820	2,406x2,208x7,130	2,406x2,208x5,820	2,406x2,208x7,130
Noise level	dB(A)	53.7	61.6	54.5	62.0	54.7	61.0	54.1
<b>Compressor</b>								
Scroll compressor	n°	4	4	4	6	6	6	6
Max. power consumption	kW	169.4	185.6	185.6	229.8	229.8	259.8	259.8
Max. absorbed current	A	294	324	324	396	396	456	456
Power consumption W7L35	kW	116.2	121.1	126.2	162.8	161.2	188.9	186.8
Absorbed current W7L35	A	190.5	203.7	211.9	258.8	256.5	311.4	308.5
<b>Fans</b>								
Axial fans	n°	8 x ø800	8 x ø800	8 x ø800	8 x ø800	10 x ø800	8 x ø800	10 x ø800
Fan flow	m³/h	142,072	171,000	142,072	171,000	177,590	171,000	177,590
Power consumption	kW	10.40	10.92	10.40	10.92	13.00	10.92	13.00
Max. absorbed current	A	31.20	31.20	17.84	31.20	22.00	31.20	22.00
<b>Hydraulic</b>								
Coolant liquid	Type	Water	Water	Water	Water	Water	Water	Water
Inlet temperature	°C	12	12	12	12	12	12	12
Outlet temperature	°C	7	7	7	7	7	7	7
Water flow	m³/h	67.26	74.16	71.99	86.51	87.08	96.01	96.73
Pressure drops	kPa	35.8	44.3	41.9	64.2	65.0	48.3	49.0
Water connections	Inches	4	5	5	5	5	5	5
<b>FC</b>								
Air temperature (TOTAL FC)	°C							
Inlet fluid temperature	°C							

Evaporator water (in/out) 12/7 °C; condenser air (in) 35 °C;  
 30% glycol-water solution Evaporator solution IN/OUT= 15/10 °C; condenser air 30 °C  
 Average sound pressure level at 10 m distance; unit in a free field on a reflective surface.  
 Unit at full capacity According to ISO 3744 Pump contribution is not considered.  
 \*In case of applications with an output fluid temperature below 0 °C, please contact the manufacturer.