

TECHNISCHE DATASHEET
LWP 618 SPLITUNIT 400V

AT-TEC
WARMTEPOMPEN



General Data

Power Range	A2/W35: 4 - 17	[kW]
Energy class VL 35°C	A++ (from 09/2019: A+++)	[-]
Energy class VL 55°C	A++	[-]
Max. Flow temperature	62,0	[°C]

Electrical Data

International Protection Marking	IP20	[-]
Supply control	1/N/PE, 230V, 50Hz	[V, Hz]
Rated Input control	28	[W]
Cos(φ) control	0,90	[-]
Fuse control	1x B13	[-]
Supply compressor	3/N/PE, 400V, 50Hz	[V, Hz]
Operating current compressor	5,86	[A]
Starting current compressor	9 / -	[A / A]
Cos(φ) compressor	0,98	[-]
Fuse compressor	3x C16	[-]

Sound power level Data acc. EN12102

Nom. Sound power level heat pump	46,1	[dB(A)]
Max. Sound power level heat pump	57,8	[dB(A)]

Refrigerant circuit Data

Compressor - Type	Scroll	[-]
Refrigerant - Type	R410a	[-]
Refrigerant - Amount	0,0	[kg]
Refrigerant - Fluid Group	2	[-]
Refrigerant - GWP	1927	[-]
Compressor Oil - Type	3MA-POE	[-]
Compressor Oil - Amount	1,18	[l]

Heating Side

Condenser - Type	Plate heat exchanger	[-]
Condenser - Material	Stainless steel, copper brazed	[-]
Condenser - Flowrate (5K)	3,0	[m³/h]
Condenser pressure loss	9,6	[kPa]
Circulation pump - Type	external circulation pump	[-]
Circulation pump - residual head	-	[mWs]
Circulation pump - max. power	-	[W]

Source Side

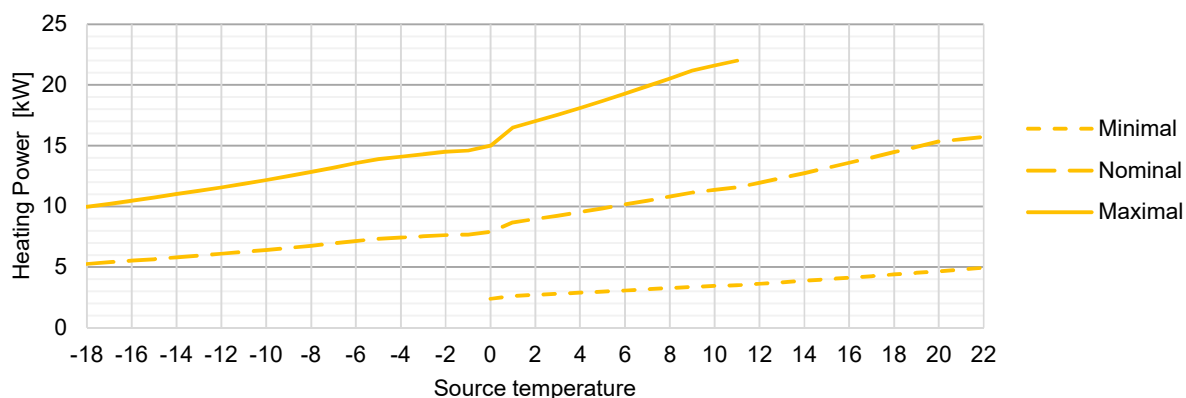
Evaporator - Type	Lamella heat exchanger	[-]
Evaporator - Material	Copper / Aluminium lamella	[-]
Evaporator - Flowrate (3K)	6500,0	[m³/h]
Evaporator - Pressure loss	25,0	[kPa]
Source - Type	Axial fan	[-]
Source - residual head	-	[mWs]
Source - max. Power	290	[W]

Performance Data*

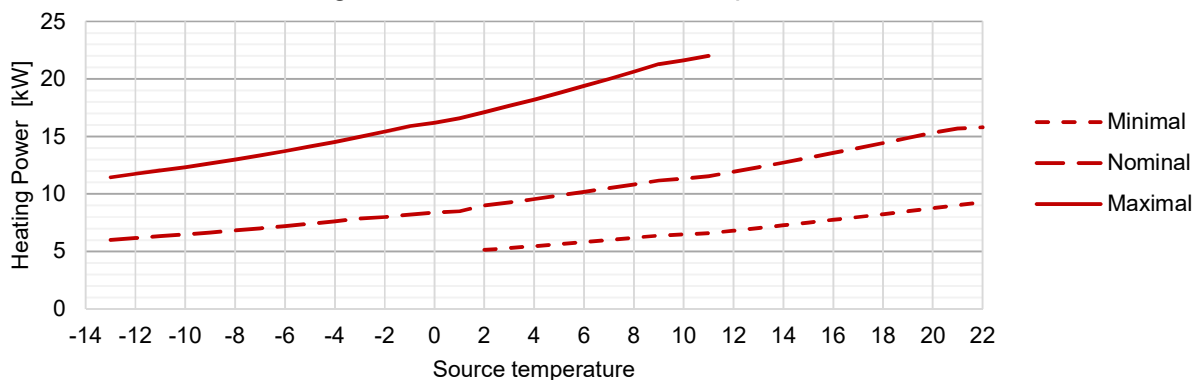
Operating point	Comp. speed	Heating capacity	Cooling capacity	Rated Input	COP
A10/W35	33%	7,5	6,1	1,4	5,31
A7/W35	33%	7,3	5,8	1,4	5,08
A2/W35	52%	9,0	6,7	2,3	3,91
A2/W35	100%	17,2	12,5	4,7	3,68
A-7/W35	88%	12,6	8,5	4,1	3,06
A-7/W52	100%	13,3	7,5	5,8	2,30
A20/W55	Minimal	9,0	6,6	2,4	3,79

Climate: warmer	35°C	SCOP	5,23
		η_s	206
	55°C	SCOP	3,96
		η_s	155
Climate: average	35°C	SCOP	4,55
		η_s	179
	55°C	SCOP	3,59
		η_s	141
Climate: colder	35°C	SCOP	4,02
		η_s	158
	55°C	SCOP	3,22
		η_s	125

Heating Power WPL618 at Flow temperature 35°C*

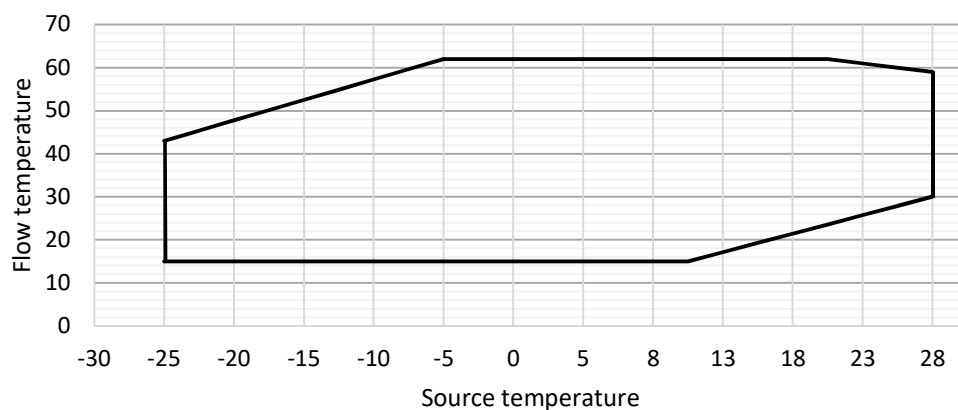


Heating Power WPL618 at Flow temperature 55°C*



* Compressive performance deviations of up to 10% are possible. All informations without guarantee: typographical and printing errors reserved.

Operating limit



Connection measurements

Heat Pump Dimensions (H x W x D)

[mm] 1.350 x 600 x 650

Heat Pump Weight

[kg] 167

A: not in usage

B: Heating Outlet, G1" MT

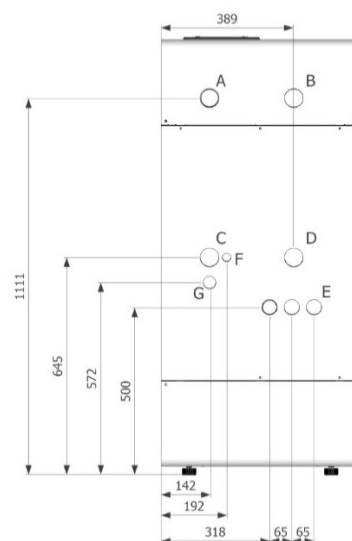
C: not in usage

D: Heating Inlet, G1" FT

E: Electrical Inlet

F: Connection Injection pipe, 12mm

G: Connection Suction pipe, 22mm



Free spaces

A: 400mm

B: 400mm

C: 200mm

D: 600mm

E: 400mm

