

TECHNISCHE DATASHEET
LWP 412 SPLITUNIT 230V

AT-TEC
WARMTEPOMPEN



General Data

Power Range	A2/W35: 2 - 12	[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	IP 20	[-]
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	1/N/PE, 230V, 50Hz	[V, Hz]
Operating current compressor	6,72	[A]
Starting current compressor	22 / -	[A / A]
Cos(φ) compressor	0,97	[-]
Fuse compressor	1x C25	[-]

Sound power level Data acc. EN12102

Nom. Sound power level heat pump	44,9	[dB(A)]
Max. Sound power level heat pump	55,7	[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	0,74	[l]

Heating Side

Condenser - Type	Plate heat exchanger	[-]
Condenser - Material	Stainless steel, copper brazed	[-]
Condenser - Flowrate (5K)	2,0	[m³/h]
Condenser pressure loss	8,2	[kPa]
Circulation pump - Type	external circulation pump	[-]
Circulation pump - residual head	-	[mWs]
Circulation pump - max. power	-	[W]

Source Side

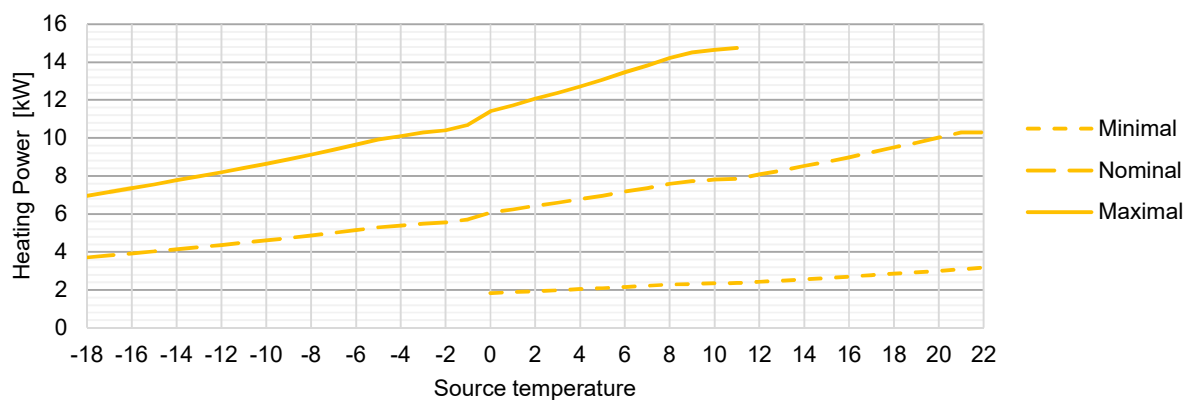
Evaporator - Type	Lamella heat exchanger	[-]
Evaporator - Material	Copper / Aluminium lamella	[-]
Evaporator - Flowrate (3K)	5500,0	[m³/h]
Evaporator - Pressure loss	45,0	[kPa]
Source - Type	Axial fan	[-]
Source - residual head	-	[mWs]
Source - max. Power	210	[W]

Performance Data*

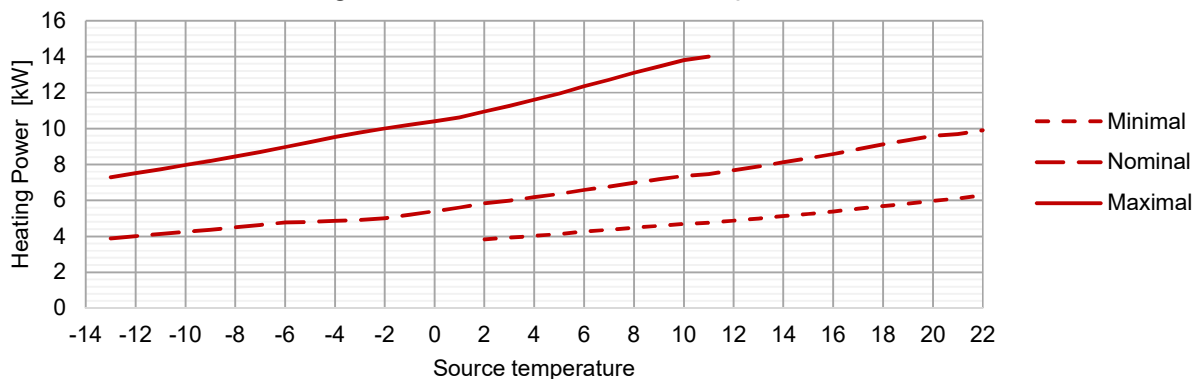
Operating point	Comp. speed	Heating capacity	Cooling capacity	Rated Input	COP
A10/W35	33%	5,0	4,1	0,9	5,36
A7/W35	33%	4,8	3,9	0,9	5,12
A2/W35	52%	5,9	4,4	1,5	3,96
A2/W35	100%	11,8	8,7	3,1	3,76
A-7/W35	88%	8,3	5,6	2,7	3,11
A-7/W52	100%	8,8	5,0	3,8	2,33
A20/W55	Minimal	6,0	4,4	1,6	3,72

Climate: warmer	35°C	SCOP	5,30
		η_s	209
	55°C	SCOP	4,08
		η_s	160
Climate: average	35°C	SCOP	4,59
		η_s	180
	55°C	SCOP	3,66
		η_s	143
Climate: colder	35°C	SCOP	4,09
		η_s	160
	55°C	SCOP	3,33
		η_s	130

Heating Power WPL412 at Flow temperature 35°C*

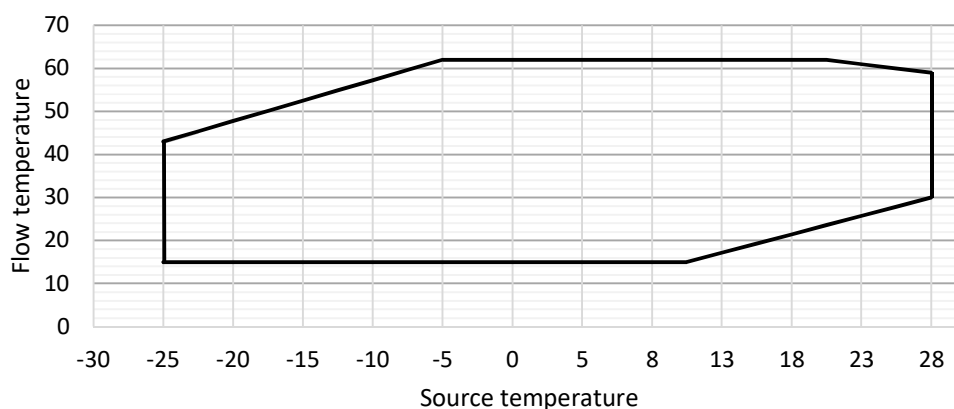


Heating Power WPL412 at Flow temperature 55°C*



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

Operating limit



Connection measurements

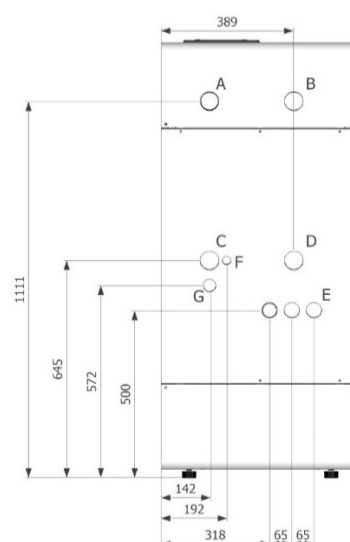
Heat Pump Dimensions (H x W x D)

[mm] 1.350 x 600 x 650

Heat Pump Weight

[kg] 157

- 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

