

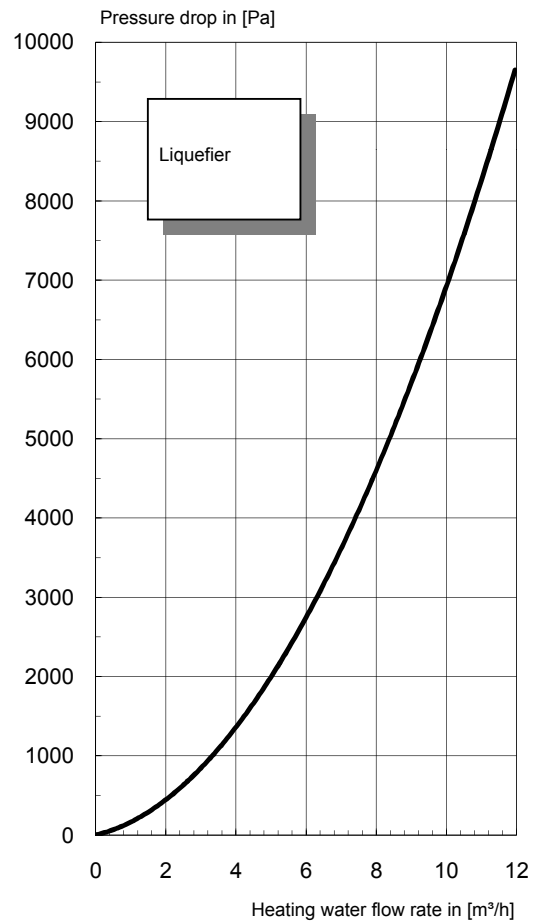
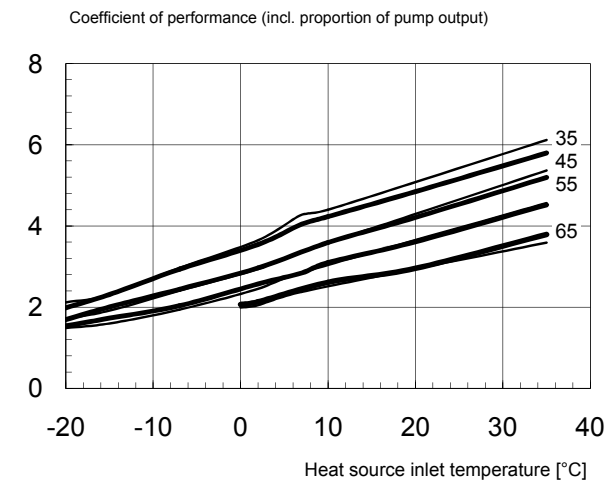
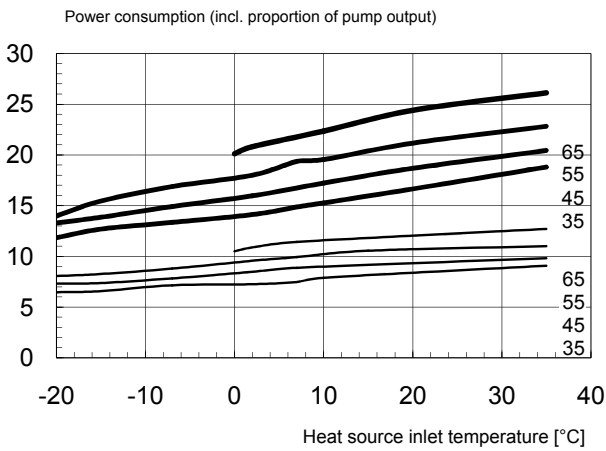
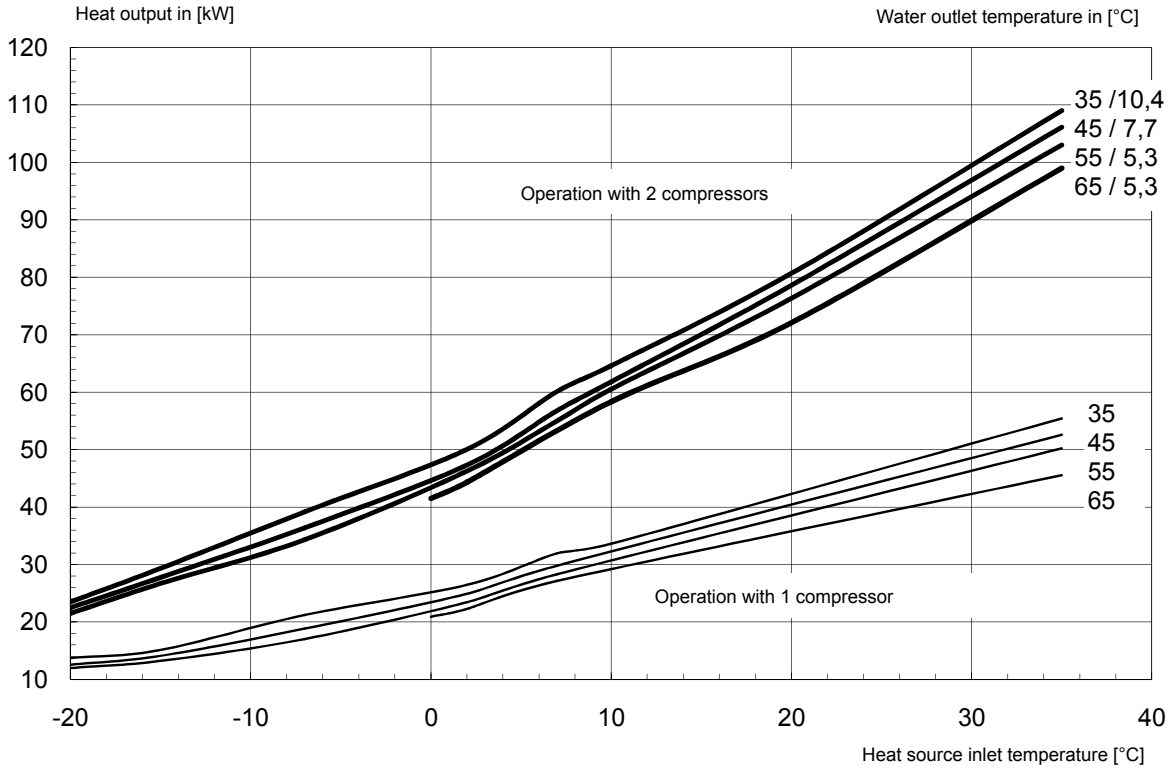
Device information	LA 60TU
Design	
- Heat source	Outside air
- Model	Universal design
- Regulation	Wall-mounted WPM EconPlus-E
- Thermal energy metering	Integrated
- Installation location	Outdoors
- Performance levels	2
Operating limits	
- Min. return temperature / Max. flow temperature 7)	18 / 65 °C
- Lower operating limit heat source (heating operation) / Upper operating limit heat source (heating operation)	-22 / 35 °C
Flow / sound	
- Max. heating water flow rate / Pressure drop	10,4 m³/h / 8300 Pa
- Minimum heating water flow rate	5,3 m³/h
- Heat source flow (min.)	14000 m³/h
- Sound power level device	74 dB (A)
- Sound power level in accordance with EN 12012 (lowered operation)	71 dB (A)
- Sound pressure level in 10 m 2)	50 dB (A)
Dimensions/weight and filling quantities	
- Dimensions (W x H x D) 3)	1900 x 2300 x 1000 mm
- Weight	915 kg
- Thread type, heating connection / Connection heating	R / 2 inch
- Refrigerant / Amount of refrigerant	R417A / 20,9 kg
- Oil type / Oil quantity	Polyolester (POE) / 8,28 l
Electrical connection	
- Rated voltage / Fuse protection	3/N/PE ~400 V, 50 Hz / Z 50 A
- Control voltage / Control voltage fuse protection	1/N/PE ~230 V, 50 Hz / C 16 A
- Degree of protection	IP 24
- Initial current limiter	Yes
- Starting current with soft starter	78 A
- Nominal power consumption according to EN 14511 at A7/W35 1)	15 kW
- ##nennstrom_A7W35_EN14511## / Nominal current cos phi	/ 0,8
- Power consumption of the compressor protection	70 W
Complies with the European safety regulations	
Additional model features	
- Type of defrosting	Reverse circulation
- Water in device protected against freezing 4)	Yes

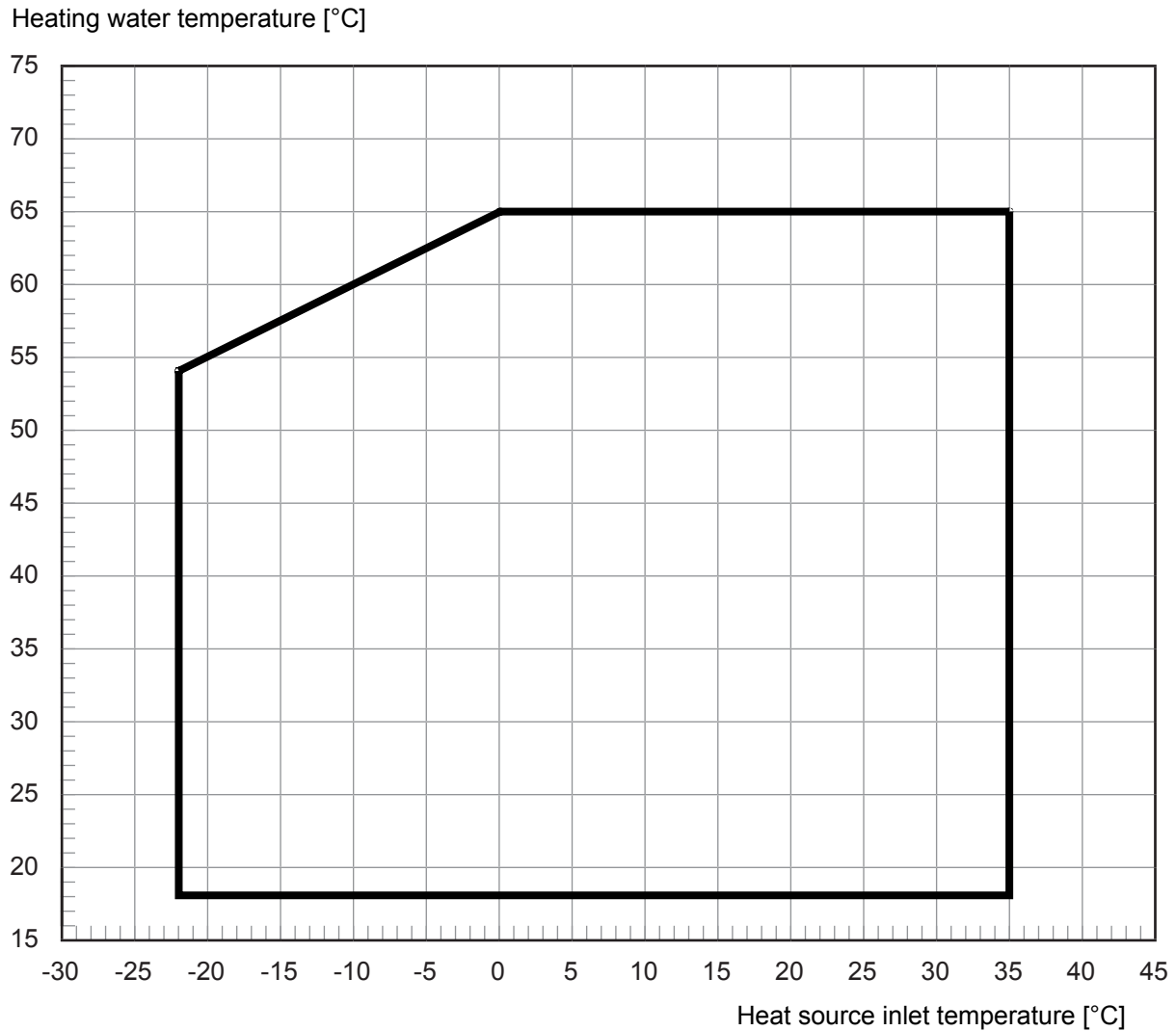
Heat output / coefficient of performance (COP) according to EN 14511: 1)

Heating compressor 1	W35	W45	W55
A-20		12,56 kW / 1,72	14,15 kW / 1,72
A-15		15,12 kW / 1,99	13,22 kW / 1,57
A-7	21,20 kW / 3,00	17,84 kW / 2,28	17,04 kW / 1,92
A2	26,40 kW / 3,70	23,90 kW / 2,81	23,45 kW / 2,44
A7	31,90 kW / 4,30	23,79 kW / 3,34	28,30 kW / 2,9
A10	33,60 kW / 4,40	32,50 kW / 3,65	30,70 kW / 3,04
A12	35,00 kW / 4,38	34,60 kW / 3,84	32,10 kW / 3,15
A20	80,68 kW / 4,85	78,60 kW / 4,20	76,33 kW / 3,60
Heating compressor 2	W35	W45	W55
A-20	23,50 kW / 1,99	22,51 kW / 1,69	21,50 kW / 1,54
A-15	29,34 kW / 2,31	27,76 kW / 2,01	26,71 kW / 1,73
A-7	39,20 kW / 2,90	36,40 kW / 2,44	34,30 kW / 2,22
A2	50,00 kW / 3,60	47,32 kW / 2,97	46,07 kW / 2,56
A7	60,10 kW / 4,10	57,00 kW / 3,37	55,00 kW / 2,80
A10	64,60 kW / 4,20	61,80 kW / 3,59	60,50 kW / 3,08
A12	66,00 kW / 4,13	65,00 kW / 3,61	63,00 kW / 3,15
A20	80,68 kW / 4,85	78,60 kW / 4,21	76,33 kW / 3,61

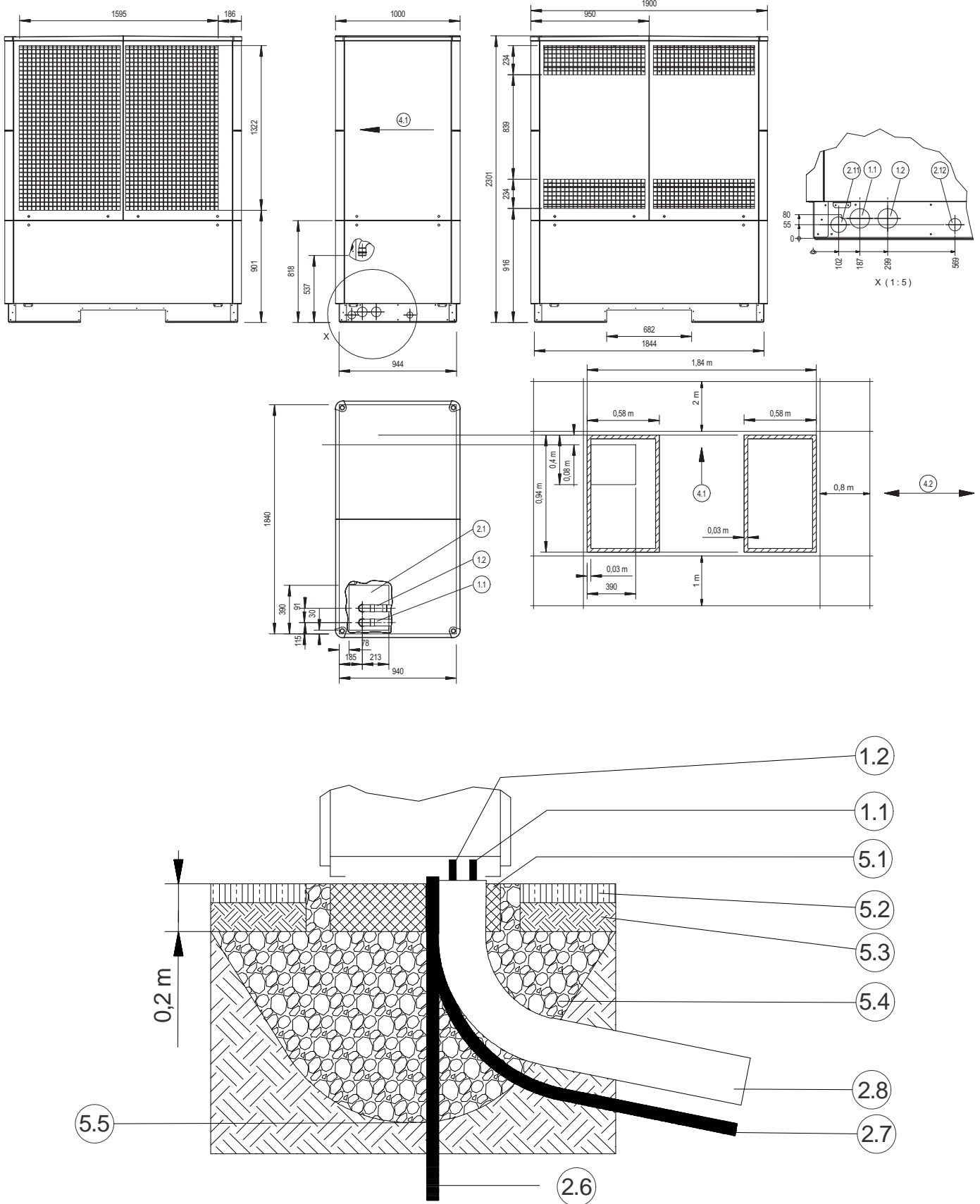
Note:

- 1) This data indicates the size and capacity of the system according to EN 14511. For an analysis of the economic and energy efficiency of the system, the bivalence point and regulation should be taken into consideration. These specifications can only be achieved with clean heat exchangers. Information on maintenance, commissioning and operation can be found in the respective sections of the installation and operating instructions. The specified values have the following meaning, e.g. A7 / W35: Heat source temperature 7 °C and heating water flow temperature 35 °C.
- 2) The specified sound pressure level corresponds to the operating noise of the heat pump in heating operation with a flow temperature of 35°C. The specified sound pressure level represents the free sound area level. The measured value can deviate by up to 16 dB(A), depending on the installation location.
- 3) Please note that additional space is required for pipe connections, operation and maintenance.
- 4) The heat circulating pump and the heat pump manager must always be ready for operation.
- 7) Depending on the heat pump type and refrigerant used, the maximum flow temperatures in heating operation may be reduced when the outside temperature falls. Further information can be found in the operating limit diagram for the heat pump. If the supporting feet are used, the level can increase by up to 3 dB (A).





Note:
The maximum possible flow temperature and the operating limits vary by +/- 2K due to component tolerances.
The minimum volume flow specified in the device information must be ensured at the lower operating limit.
In mono energy operating mode with the heating element activated, the maximum flow temperature increases by approximately 3K.



1. Hydraulic connections
- 1.1 Flow
- 1.2 Return
- 1.11 Flow (optional)
- 1.21 Return (optional)
- 1.3 Domestic hot water flow
- 1.4 Hot water return
- 1.5 Heat source flow
- 1.6 Heat source return
- 1.7 Filling and drain cock
- 1.8 Combined heating/domestic hot water return
2. Feed-throughs/pipes
- 2.1 Feed-through - condensate pipe
- 2.2 Feed-through - electric wire
- 2.11 Feed-through condensate pipe (optional)
- 2.21 Feed-through electric wire (optional)
- 2.5 Condensate drain
- 2.6 Condensate pipe
- 2.7 Electric empty conduit
- 2.8 District heating pipe
3. Transport/operation
- 3.1 Ring bolt for crane transport
- 3.2 Transport tunnel
- 3.3 Transport opening for carrier pipe
- 3.4 Operator side
4. Air circuit
- 4.1 Direction of air flow
- 4.2 Main wind direction with free-standing installation
- 4.3 Air inlet
- 4.4 Air outlet
- 4.31 Air inlet (optional)
- 4.41 Air outlet (optional)
5. Foundation
- 5.1 Foundation
- 5.2 Green field
- 5.3 Earth
- 5.4 Layer of gravel
- 5.5 Frost line
- 5.6 Contact surface floor frame (all-round)

Notes:

The condensate pipe must lead to the drainage facilities. The frost line can vary according to the climatic region.

The regulations of the countries in question must be observed. For unprotected free-standing installation, heat pumps without deflector hoods must be installed at right angles to the main wind direction.

Depending on the heat pump type, not all points of the legend are included in the drawing.