Technical data / scope of supply

LWDV

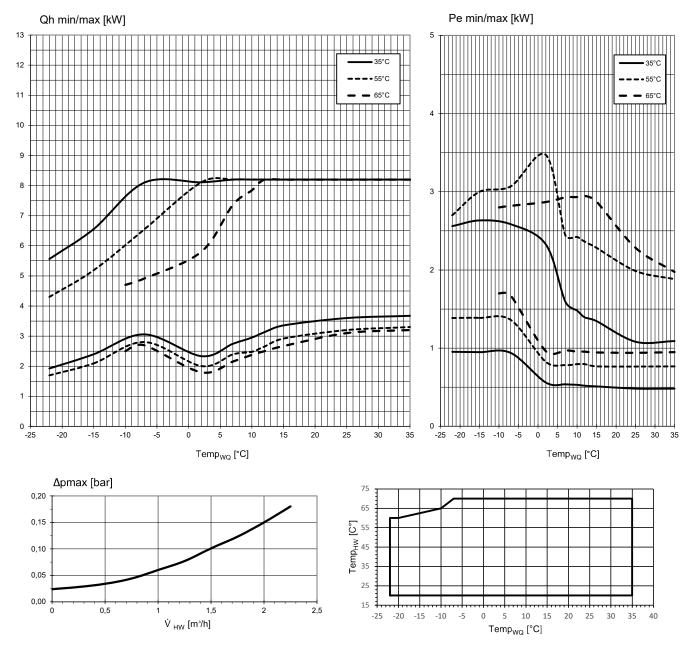
	Values in brackets: (1 Compressor)		LWDV 91-1/3
leating capacity COP	for A10/W35 acc. to EN14511	Partial load operation	kW COP	3,01 6,03
	for A7/W35 acc. to EN14511	Partial load operation	kW COP	2,77 5,41
	for A7/W55 acc. to EN14511	Partial load operation	kW COP	4,23 3,35
	for A2/W35 acc. to EN14511	Partial load operation	kW COP	5,08 4,61
	for A-7/W35 acc. to EN14511	Full load operation	kW COP	8,11 3,14
	for A-7/W55 acc. to EN 14511	Full load operation	kW COP	6,55 2,13
leating capacity	for A10/W35	min. I max.	kW kW	2,95 8,20
	for A7/W35	min. I max.	kW kW	2,74 8,20
	for A7/W55	min. I max.	kW kW	2,39 8,20
	for A2/W35	min. I max.	kW kW	2,33 8,20
	for A-7/W35	min. I max.	kW kW	3,06 8,11
	for A-7/W55	min. I max.	kW kW	2,80 6,55
Cooling capacity EER	for A35/W18	Partial load operation	kW EER	- -
	for A35/W7	Partial load operation	kW EER	
		·		
Cooling capacity	for A35/W18	min. I max.	kW kW	— —
	for A35/W7	min. I max.	kW kW	- -
perating limits				
leating circuit return r	nin. Heating circuit flow max. Heat	ing within heat source min./max.	°C	20 70
leat source, heating		min. I max.	°C	-22 35
Additional operating p	oints			A–10/W65
Sound				
Sound power level ins	side	min. Night max.	dB(A)	- - -
Sound power level out		min. Night max.	dB(A)	49 53 59
				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Sound power level acc		inside outside	dB(A)	- 54
onality Low-frequen	су		dB(A) • yes – no	- -
leat source				
Air flow rate at maximu	um external pressing Maximum exte	ernal pressure	m³/h Pa	3500 -
Heating circuit				
-low rate (pipe dimens	sioning) I Min. volume buffer tank in s	eries I Min. volume separation buffer tank	l/h l l	1600 60 60
				1600 60 60
Free pressing Pressu	ire loss Flow rate		bar bar l/h	- 0,07 1150
Free pressing Pressu			bar bar l/h	– 0,07 1150
/lax. allowable operati	ng pressure		bar bar l/h bar	
Max. allowable operati	ng pressure	minimum minimum minimum minimum minimum minimum minimum	bar bar l/h	– 0,07 1150
Max. allowable operati Circulation pump cont General unit data	ng pressure		bar bar l/h bar bar bar l/h	- 0,07 1150 3 - -
Aax. allowable operati Circulation pump cont General unit data	ng pressure		bar bar l/h bar	– 0,07 1150
Max. allowable operati Circulation pump cont General unit data Fotal weight	ng pressure	mananananananananananananananananananan	bar bar l/h bar bar bar l/h	- 0,07 1150 3 - -
Max. allowable operati Circulation pump cont General unit data Total weight Veight of heat pump r	ng pressure rol range module Compact module Fan mod	mananananananananananananananananananan	bar bar l/h bar l/h kg	- 0,07 1150 3 - - 141
Max. allowable operati Circulation pump cont General unit data Fotal weight Weight of heat pump r Refrigerant type Refr	ng pressure rol range module Compact module Fan mod	mananananananananananananananananananan	bar bar l/h bar //h kg kg kg kg	- 0,07 1150 3 - - 141 - - -
Max. allowable operati Circulation pump contr General unit data Fotal weight Veight of heat pump r Refrigerant type Refr Electrics	ng pressure rol range module Compact module Fan mod	mananananananananananananananananananan	bar bar l/h bar //h kg kg kg kg	- 0,07 1150 3 - - 141 - - -
Max. allowable operati Circulation pump contr General unit data Fotal weight Veight of heat pump r Refrigerant type Refr Electrics /oltage code all-pole	ng pressure rol range module Compact module Fan mod igerant capacity fuse protection for heat pump *)**)	mananananananananananananananananananan	bar bar l/h bar //h kg kg kg kg kg A	- 0,07 1150 3 - - 141 - - - R290 1,05 1~N/PE/230V/50Hz B ⁷
Max. allowable operati Circulation pump cont General unit data Fotal weight Weight of heat pump r Refrigerant type Refr Electrics /oltage code all-pole /oltage code Control	ng pressure rol range nodule Compact module Fan mod igerant capacity fuse protection for heat pump *)**) voltage fuse protection **)	mananananananananananananananananananan	bar bar l/h bar //h kg kg kg kg kg A A	- 0,07 1150 3 - - 141 - - - R290 1,05
Max. allowable operati Circulation pump contr General unit data Fotal weight Weight of heat pump r Refrigerant type Refr Electrics /oltage code all-pole /oltage code Control /oltage code Electric	ng pressure rol range nodule Compact module Fan mod igerant capacity fuse protection for heat pump *)**) voltage fuse protection **) : heating element fuse protection **)	min. I max.	bar bar l/h bar /h kg kg kg kg kg A A A	- 0,07 1150 3 - - 141 - - - R290 1,05 1~N/PE/230V/50Hz B ² 1~N/PE/230V/50Hz B ²
Max. allowable operati Circulation pump cont General unit data Total weight Veight of heat pump r Refrigerant type Refr Electrics /oltage code all-pole /oltage code Control /ottage code Electric VP*): effect. Power co	ng pressure rol range module Compact module Fan mod igerant capacity fuse protection for heat pump *)**) voltage fuse protection **) : heating element fuse protection **) onsumption A7/W35 (partial load ope	min. I max. ule	bar bar l/h bar //h kg kg kg kg kg A A A A A	
Max. allowable operati Circulation pump conti General unit data Fotal weight Veight of heat pump in Refrigerant type Refrigerant type Ref	ng pressure rol range module Compact module Fan mod igerant capacity fuse protection for heat pump *)**) voltage fuse protection **) : heating element fuse protection **) onsumption A7/W35 (partial load ope consumption A7/W35 acc. to EN145	min. I max. ule rration) EN145111 Electric consumption I co 11: min. I max.	bar bar l/h bar /h kg kg kg kg kg kg A A A A A A A A	0,07 1150 3 141 R290 1,05 1~N/PE/230V/50Hz B' 1~N/PE/230V/50Hz B' 1~N/PE/230V/50Hz B' 1,38 2,11 0,8 0,53 1,6
Aax. allowable operati Circulation pump contr General unit data Total weight Veight of heat pump r Refrigerant type Refri Electrics /oltage code all-pole /oltage code Control /oltage code Electric /vP*): effect. Power co VP*): effect. ve power VP*): Max. machine c	ng pressure rol range module Compact module Fan mod igerant capacity fuse protection for heat pump *)**) voltage fuse protection **) theating element fuse protection **) theating element fuse protection **) posumption A7/W35 (partial load ope consumption A7/W35 acc. to EN145 urrent I Max. power consumption wit	min. I max. ule rration) EN145111 Electric consumption I co 11: min. I max.	bar bar l/h bar /h kg kg kg kg kg kg kg A A A A A A A A	0,07 1150 3 141 R290 1,05 1~N/PE/230V/50Hz B ⁻ 1~N/PE/230V/50Hz B ⁻ 1~N/PE/230V/50Hz B ⁻ 1,38 2,11 0,8 0,53 1,6 16 3,7
Aax. allowable operati Circulation pump contr General unit data Total weight Veight of heat pump r Refrigerant type Refri Electrics /oltage code all-pole /oltage code Control /oltage code Electric /vP*): effect. Power co VP*): effect. ve power VP*): Max. machine c	ng pressure rol range module Compact module Fan mod igerant capacity fuse protection for heat pump *)**) voltage fuse protection **) theating element fuse protection **) theating element fuse protection **) posumption A7/W35 (partial load ope consumption A7/W35 acc. to EN145 urrent I Max. power consumption wit	min. I max. ule rration) EN145111 Electric consumption I co 11: min. I max.	bar bar l/h bar /h kg kg kg kg kg kg A A A A A A A A	0,07 1150 3 141 R290 1,05 1~N/PE/230V/50Hz B' 1~N/PE/230V/50Hz B' 1~N/PE/230V/50Hz B' 1,38 2,11 0,8 0,53 1,6
Aax. allowable operati Circulation pump cont General unit data Total weight Veight of heat pump r Refrigerant type Refr Electrics /oltage code all-pole /oltage code Control /oltage code Electric VP*): effect. Power co VP*): effect. Power co VP*): effect. Power co VP*): effect. Power co	ng pressure rol range module Compact module Fan mod igerant capacity fuse protection for heat pump *)**) voltage fuse protection **) theating element fuse protection **) theating element fuse protection **) posumption A7/W35 (partial load ope consumption A7/W35 acc. to EN145 urrent I Max. power consumption wit	min. I max. ule rration) EN145111 Electric consumption I co 11: min. I max.	bar bar l/h bar /h kg kg kg kg kg kg kg A A A A A A A A	0,07 1150 3 141 R290 1,05 1~N/PE/230V/50Hz B ⁻ 1~N/PE/230V/50Hz B ⁻ 1~N/PE/230V/50Hz B ⁻ 1,38 2,11 0,8 0,53 1,6 16 3,7
Aax. allowable operati Sirculation pump contr Seneral unit data Total weight Veight of heat pump r Refrigerant type Refright Silectrics Yoltage code all-pole Yoltage code all-pole Yoltage code Control Yoltage code Electric VP*): effect. Power co VP*): effective power VP*): Max. machine co Starting current: direct Degree of protection	ng pressure rol range nodule Compact module Fan mod igerant capacity fuse protection for heat pump *)**) voltage fuse protection **) eneating element fuse protection **) onsumption A7/W35 (partial load ope consumption A7/W35 acc. to EN145 urrent I Max. power consumption wit with soft starter	min. I max. ule rration) EN145111 Electric consumption I co 11: min. I max.	bar bar l/h bar /h kg kg kg kg kg kg kg A A A A A A A	- 0,07 1150 3 - - 141 - - - R290 1,05 1~N/PE/230V/50Hz B ² 1~N/PE/230V/50Hz B ²
fax. allowable operation Seneral unit data otal weight Veight of heat pump refrigerant type Refrigerant ty	ng pressure rol range nodule Compact module Fan mod igerant capacity fuse protection for heat pump *)**) voltage fuse protection **) beating element fuse protection **) onsumption A7/W35 (partial load ope consumption A7/W35 acc. to EN145 urrent I Max. power consumption wit with soft starter	min. I max. ule rration) EN145111 Electric consumption I co 11: min. I max.	bar bar l/h bar /h kg kg kg kg kg kg A A A A A kW kW kW kW kW A kW	- 0,07 1150 3 - - 141 - - - R290 1,05 1~N/PE/230V/50Hz B' 1~N/PE/230V/50Hz B' 1-N/PE/230V/50Hz B' - 1,38 2,11 0,8 0,53 1,6 16 3,7 < 5 - 24
Aax. allowable operati Circulation pump cont General unit data Total weight Veight of heat pump r Refrigerant type Refrigerant type Refri	ng pressure rol range nodule Compact module Fan mod igerant capacity fuse protection for heat pump *)**) voltage fuse protection **) beating element fuse protection **) onsumption A7/W35 (partial load ope consumption A7/W35 acc. to EN145 urrent I Max. power consumption wit with soft starter	min. I max. ule rration) EN145111 Electric consumption I co 11: min. I max.	bar bar l/h bar /h kg kg kg kg kg kg A 	
Aax. allowable operati Circulation pump cont General unit data Total weight Veight of heat pump r Refrigerant type Refri Statestrics Yoltage code all-pole Yoltage code Control Yoltage code Control Yoltage code Electric VP*): effect. Power co VP*): effect. Power co VP*): effective power VP*): effective power VP*): Max. machine co Starting current: direct Degree of protection Residual current circul Electric heating eleme Circulation pump power	ng pressure rol range nodule Compact module Fan mod igerant capacity fuse protection for heat pump *)**) voltage fuse protection **) heating element fuse protection **) heating element fuse protection **) onsumption A7/W35 (partial load ope consumption A7/W35 acc. to EN145 urrent I Max. power consumption wit with soft starter t breaker if required nt output 3 2 1 phase er consumption, heating circuit	min. I max. ule rration) EN145111 Electric consumption I co 11: min. I max. hin the operating limits	bar bar l/h bar /h kg kg kg kg kg kg A A A A A A kW kW A kW A A I P type kW kW kW	
Aax. allowable operati Circulation pump cont General unit data Total weight Veight of heat pump r Refrigerant type Refrigerant type Refrigeran	ng pressure rol range module Compact module Fan mod igerant capacity fuse protection for heat pump *)**) voltage fuse protection **) theating element fuse protection **) theating element fuse protection **) onsumption A7/W35 (partial load ope consumption A7/W35 (partial load ope consumption A7/W35 acc. to EN145 surrent I Max. power consumption wit with soft starter t breaker if required nt output 3 2 1 phase er consumption, heating circuit n	min. I max. ule rration) EN145111 Electric consumption I co 11: min. I max. hin the operating limits min. I max.	bar bar l/h bar //h kg kg kg kg kg kg kg kg A A A A A A A kW kW kW kW kW kW kW kW kW kW kW kW kW kW k	
Aax. allowable operati Circulation pump cont General unit data Total weight Veight of heat pump r Refrigerant type Refr Electrics (/oltage code all-pole (/oltage code all-pole (/oltage code Control (/oltage code	ng pressure rol range nodule Compact module Fan mod igerant capacity fuse protection for heat pump *)**) voltage fuse protection **) heating element fuse protection **) heating element fuse protection **) onsumption A7/W35 (partial load ope consumption A7/W35 acc. to EN145 urrent I Max. power consumption wit with soft starter t breaker if required nt output 3 2 1 phase er consumption, heating circuit	min. I max. ule rration) EN145111 Electric consumption I co 111: min. I max. hin the operating limits min. I max. included in scope c	bar bar l/h bar /h kg kg kg kg kg kg kg kg 	
Max. allowable operati Circulation pump cont General unit data Total weight Weight of heat pump r Refrigerant type Refr Electrics //oltage code all-pole //oltage code all-pole //oltage code Control //oltage code Control //oltage code Electric NP*): effect. Power co VP*): effect. Power co VP*): effect. Power co VP*): ferent enter Starting current: direct Degree of protection Residual current circui Electric heating eleme Circulation pump powe Dther unit informatio Gafety valve heating c Buffer tank Volume	ng pressure rol range nodule Compact module Fan mod igerant capacity fuse protection for heat pump *)**) voltage fuse protection **) eneating element fuse protection **) onsumption A7/W35 (partial load ope consumption A7/W35 (partial load ope consumption A7/W35 acc. to EN145 urrent I Max. power consumption wit with soft starter t breaker if required nt output 3 2 1 phase er consumption, heating circuit n ircuit Response pressure	min. I max. ule rration) EN145111 Electric consumption I co 11: min. I max. hin the operating limits min. I max. included in scope c included in scope c	bar bar l/h bar kg kg kg kg kg kg kg A .	
Max. allowable operati Circulation pump cont General unit data Total weight Weight of heat pump r Refrigerant type Refr Electrics //oltage code all-pole //oltage code all-pole //oltage code Control //oltage code Control //oltage code Electric NP*): effect. Power co VP*): effect. Power co VP*): effect. Power co VP*): ferent enter direct Degree of protection Residual current circui Electric heating eleme Circulation pump powe Dther unit informatio Gafety valve heating c Buffer tank Volume Heating circuit expans	ng pressure rol range nodule Compact module Fan mod igerant capacity fuse protection for heat pump *)**) voltage fuse protection **) eneating element fuse protection **) onsumption A7/W35 (partial load ope consumption A7/W35 (partial load ope consumption A7/W35 acc. to EN145 surrent Max. power consumption wit with soft starter t breaker if required nt output 3 2 1 phase er consumption, heating circuit in ircuit Response pressure ion vessel Volume Prepressure	min. I max. ule rration) EN145111 Electric consumption I co 11: min. I max. hin the operating limits min. I max. included in scope of included in include in include in include in include in in include in	bar bar l/h bar /h kg kg kg kg kg kg kg kg 	
Max. allowable operati Aax. allowable operati Circulation pump cont General unit data Total weight Veight of heat pump r Refrigerant type	ng pressure rol range nodule Compact module Fan mod igerant capacity fuse protection for heat pump *)**) voltage fuse protection **) eneating element fuse protection **) onsumption A7/W35 (partial load ope consumption A7/W35 (partial load ope consumption A7/W35 acc. to EN145 urrent I Max. power consumption wit with soft starter t breaker if required nt output 3 2 1 phase er consumption, heating circuit n ircuit Response pressure	min. I max. ule rration) EN145111 Electric consumption I co 11: min. I max. hin the operating limits min. I max. included in scope of included in include in include in include in include in in include in	bar bar l/h bar kg kg kg kg kg kg kg A .	$\begin{array}{c} - \mid 0.07 \mid 1150 \\ 3 \\ - \mid - \\ 141 \\ - \mid - \mid - \\ R290 \mid 1.05 \\ \hline 1 - N/PE/230V/50Hz \mid B' \\ 1 - N/PE/230V/50Hz \mid B' \\ 1 - N/PE/230V/50Hz \mid B' \\ - \\ 1.38 \mid 2.11 \mid 0.8 \\ 0.53 \mid 1.6 \\ \hline 16 \mid 3.7 \\ < 5 \mid - \\ 24 \\ B \\ - \mid - \\ - \\$
Max. allowable operati Aax. allowable operati Circulation pump cont General unit data Total weight Veight of heat pump r Refrigerant type	ng pressure rol range nodule Compact module Fan mod igerant capacity fuse protection for heat pump *)**) voltage fuse protection **) beating element fuse protection **) onsumption A7/W35 (partial load ope consumption A7/W35 (partial load ope consumption A7/W35 acc. to EN145 urrent I Max. power consumption wit with soft starter t breaker if required nt output 3 2 1 phase er consumption, heating circuit n ircuit Response pressure geover valve heating - domestic hot v	min. I max. ule ule rration) EN145111 Electric consumption I co 11: min. I max. hin the operating limits min. I max. included in scope c included in scope of incl. in scope of s water	bar bar l/h bar kg kg kg kg kg kg kg A A A A A A kW kW kW kW kW kW kW kW kW kW kW kW kW kW kW kW kW k	$\begin{array}{c} - \mid 0.07 \mid 1150 \\ 3 \\ - \mid - \\ 141 \\ - \mid - \mid - \\ R290 \mid 1.05 \\ \hline 1 \sim N/PE/230V/50Hz \mid B' \\ \hline 1 \rightarrow N/PE/230V/50Hz \mid $
Aax. allowable operati Circulation pump cont General unit data Total weight Veight of heat pump r Refrigerant type Refrigerant type Refrigeran	ng pressure rol range nodule Compact module Fan mod igerant capacity fuse protection for heat pump *)**) voltage fuse protection **) beating element fuse protection **) onsumption A7/W35 (partial load ope consumption A7/W35 (partial load ope consumption A7/W35 acc. to EN145 urrent I Max. power consumption wit with soft starter t breaker if required nt output 3 2 1 phase er consumption, heating circuit n ircuit Response pressure geover valve heating - domestic hot v	min. I max. ule ule rration) EN145111 Electric consumption I co 11: min. I max. hin the operating limits min. I max. included in scope of included in scope of incl. in scope of supply	bar bar l/h bar l/h kg kg kg kg A <t< td=""><td>$\begin{array}{c} - \mid 0.07 \mid 1150 \\ 3 \\ - \mid - \\ 141 \\ - \mid - \mid - \\ R290 \mid 1.05 \\ \hline 1 \sim N/PE/230V/50Hz \mid B' \\ \hline 1 \rightarrow N/PE/230V/50Hz \mid$</td></t<>	$\begin{array}{c} - \mid 0.07 \mid 1150 \\ 3 \\ - \mid - \\ 141 \\ - \mid - \mid - \\ R290 \mid 1.05 \\ \hline 1 \sim N/PE/230V/50Hz \mid B' \\ \hline 1 \rightarrow N/PE/230V/50Hz \mid $

Subject to technical amendments without prior notice | 83055800eUK – Translation of the original operating manual | ait-deutschland GmbH 15



Performance curves

LWDV



823296a

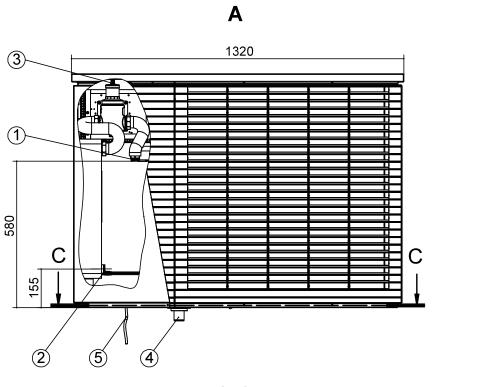
Keys: UK823296a

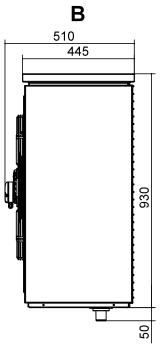
ν _{μw}	Heating water flow rate
Temp _{WQ}	Heat source temperature
Temp _{HW}	Heating water temperature
Δpmax	Maximum pressure loss
Qh min/max	Minimum/maximum heating load
Pe min/max	Minimum/maximum power consumption

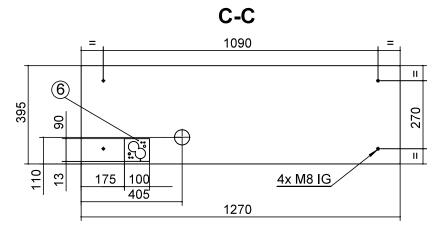


Dimensional drawings



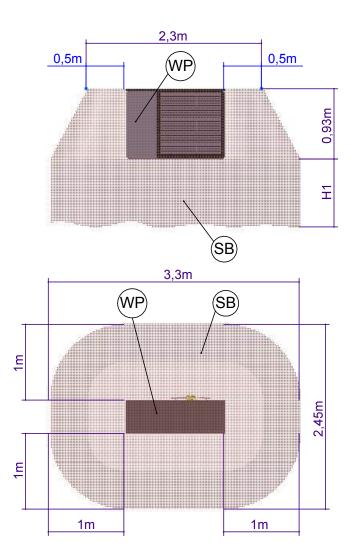


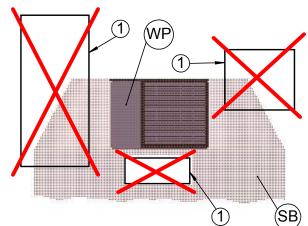




Keys: UK819504 All dimensions in mm.		Pos.	Name
		1	Heating water outlet (supply) G 1" external thread
		2	Heating water inlet (return) G 1" external thread
Pos. Name		3	Vent
A Front view		4	Nozzle (in separate package) for condensate drain pipe
B Side view		5	Cable for power, control, BUS, length ~8 m from device
C-C Cross-section baseplate		6	Feed-through for supply and return and cable (in separate package)

Protection zones / safety distances





Keys: UK819401

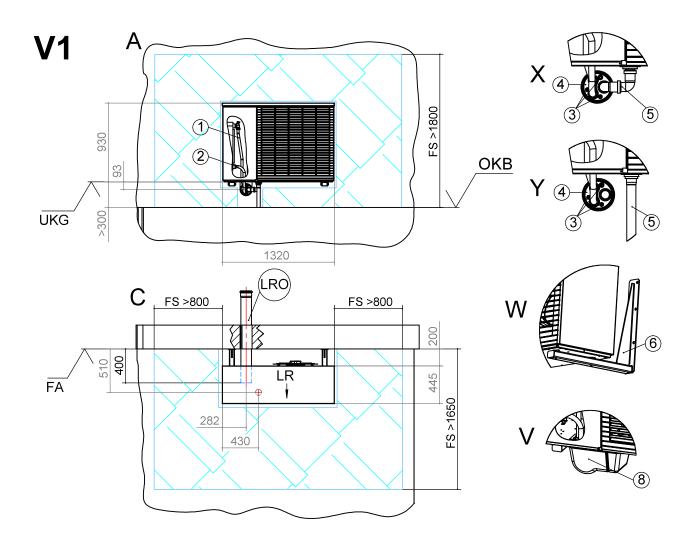
Pos.	Name
WP	Heat pump
SB	Protection zone
H1	to the floor
1	Doors, windows, light wells etc. into the building

Important: The heat pump must be installed outdoors!

The device should be positioned so that, in the event of a leak, no refrigerant can enter the building or endanger persons in any other way.

In the protection zone (see illustration) between the upper edge of the device and the floor, there must not be any sources of ignition, windows, doors, ventilation openings, light wells or similar. The protection zone must not reach into neighbouring properties or public traffic areas. The wall duct through the building envelope should be designed to be airtight.

Wall bracket with wall duct



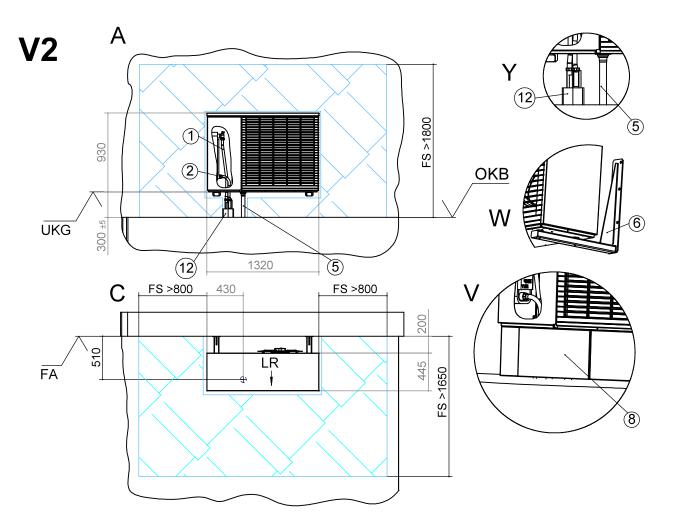
Keys: 819393-1c All dimensions in mm.

Pos.	Name
V1	Variant 1
А	Front view
С	Top view
V	Detailed view of cladding
W	Detailed view of wall attachment
Х	Detailed view of condensate line inside building
Y	Detailed view of condensate line outside building
FA	Complete external facade
UKG	Lower edge of device
OKB	Upper edge of ground
LRO	Empty sewer conduit DN 125, Øa 125 (shorten on site)
LR	Direction of air
FS	Clearance for servicing

Pos.	Name	
1 Heating water supply (accessory)		
2	Heating water return (accessory)	
3	Cable bushing	
4	Wall duct (accessory)	
5	Condensate drain / waste trap	
6	Bracket for wall attachment (accessory)	
8	Cladding of wall duct (accessory)	



Wall bracket with hydraulic connection line

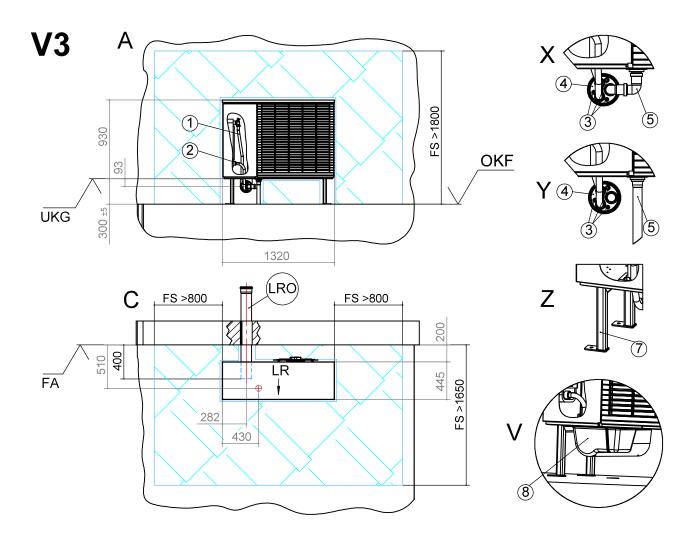


Keys: 819393-2c All dimensions in mm.

Pos.	Name
V2	Variant 2
А	Front view
С	Top view
V	Detailed view of cladding
W	Detailed view of wall attachment
Y	Detailed view of condensate line outside building
FA	Complete external facade
UKG	Lower edge of device
OKB	Upper edge of ground
LR	Direction of air
FS	Clearance for servicing

Pos.	Name	
1	Heating water supply (accessory)	
2	Heating water return (accessory)	
5	Condensate drain/waste trap	
6	Bracket for wall attachment (accessory)	
8	Cladding of wall duct (accessory)	
12	Hydraulic connection line	

Floor bracket with wall duct



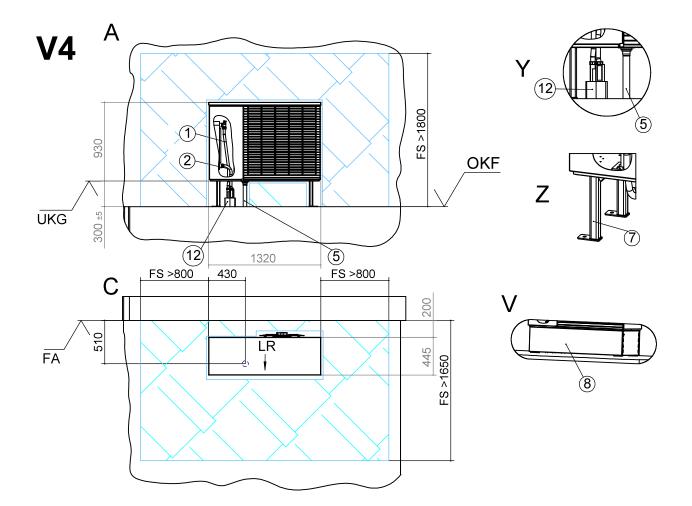
Keys: 819393-3c All dimensions in mm.

Pos.	Name
V3	Variant 3
А	Front view
С	Top view
V	Detailed view of cladding
Х	Detailed view of condensate line inside building
Y	Detailed view of condensate line outside building
Ζ	Detailed view of floor attachment
FA	Complete external facade
UKG	Lower edge of device
OKF	Upper edge of foundation
LRO	Empty sewer conduit DN 125, Øa 125 (shorten on site)
LR	Direction of air
FS	Clearance for servicing

	Pos.	Name	
1 Heating water supply (accessory)		Heating water supply (accessory)	
	2	Heating water return (accessory)	
	3	Cable bushing	
	4	Wall duct (accessory)	
	5	Condensate drain/waste trap	
	7	Bracket for floor attachment (accessory)	
	8	Cladding of wall duct (accessory)	



Floor bracket with hydraulic connection line



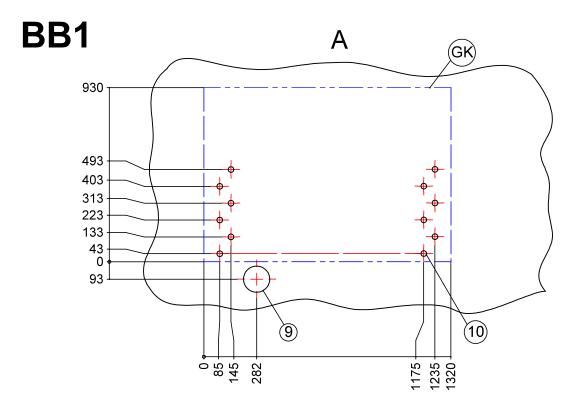
Keys: 819393-4c All dimensions in mm.

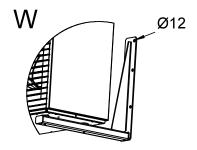
Pos.	Name
V4	Variant 4
А	Front view
С	Top view
V	Detailed view of cladding
Y	Detailed view of condensate line outside building
Ζ	Detailed view of floor attachment
FA	Complete external facade
UKG	Lower edge of device
OKF	Upper edge of foundation
LR	Direction of air
FS	Clearance for servicing

Pos.	Name	
1 Heating water supply (accessory)		
2	Heating water return (accessory)	
5	Condensate drain/waste trap	
7	Bracket for floor attachment (accessory)	
8	Cladding of floor bracket (accessory)	
12	Hydraulic connection line	



Drill template for wall bracket with wall duct





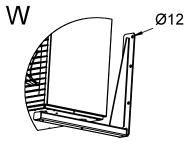
Keys: 819393-5c All dimensions in mm.

Pos.	Name
BB1	Drill template for wall bracket (accessory) on mounting wall for V1
А	Front view
W	Detailed view of wall attachment
GK	Device contour
9	Bore for empty sewer conduit KG DN125, Øa 125
10	Mounting bores for wall brackets



Drill template for wall bracket with hydraulic connection line

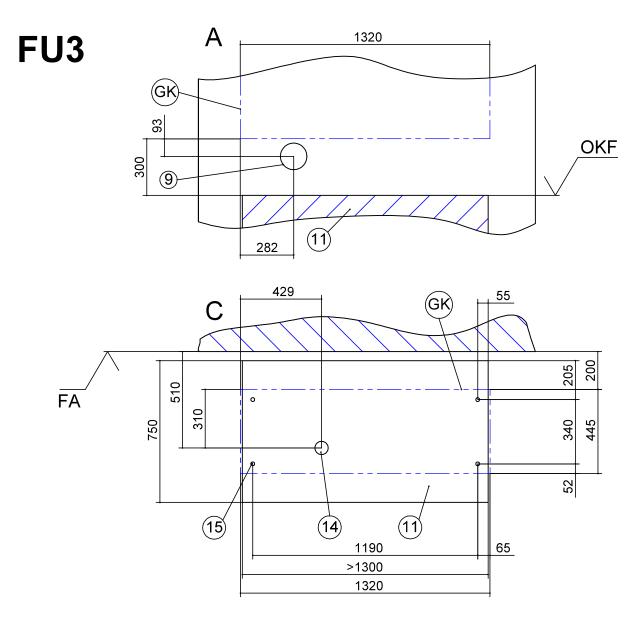
BB2 A (CK) (F) (



Keys: 819393-6c All dimensions in mm.

Pos.	Name
BB2	Drill template for wall bracket (accessory) on mounting wall for V2
А	Front view
W	Detailed view of wall attachment
GK	Device contour
10	Mounting bores for wall brackets

Foundation for V3 with wall duct



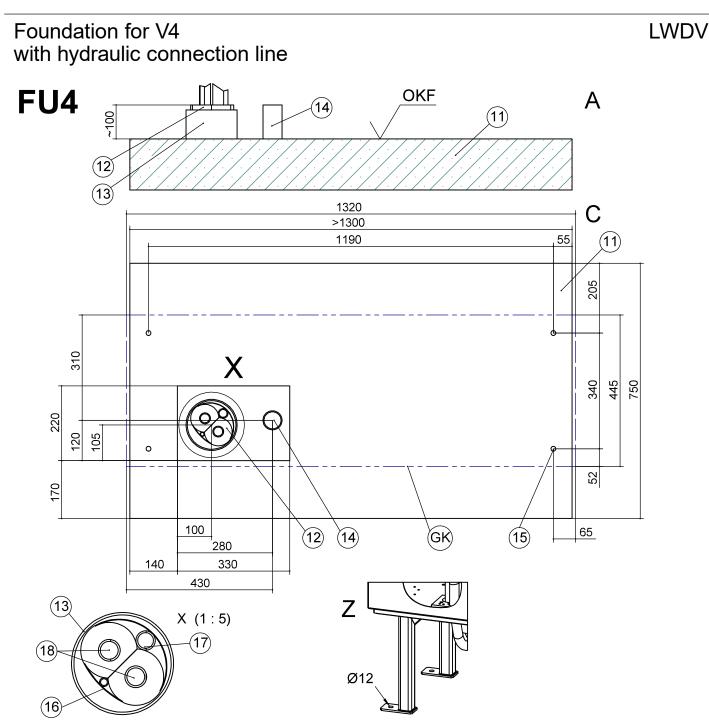
Keys: 819393-7c All dimensions in mm.

Pos.	Name
FU3	View of foundation for V3
А	Front view
С	Top view
FA	Complete external facade
OKF	Upper edge of foundation
GK	Device contour

_	Pos.	Name
	9	Bore for empty sewer conduit KG DN125, Øa 125
	11	Foundation
	14	Condensate drain pipe ≥ Ø50
_	15	Mounting bores for floor bracket
		· -

The foundation must not have any structure-borne sound contact with the building.





Keys: 819393-8c

All dimensions in mm.

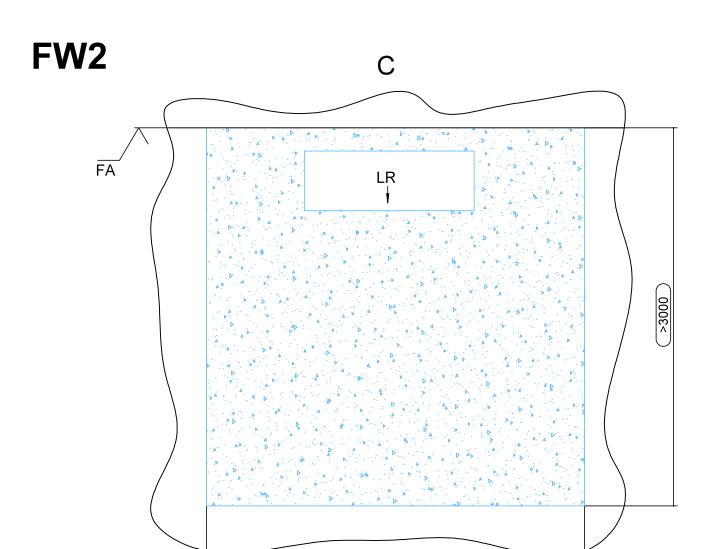
Pos.	Name
FU4	View of foundation for V4
А	Front view
С	Top view
Х	Detailed view X
Ζ	Detailed view of floor attachment
OKF	Upper edge of foundation
GK	Device contour

Pos.	Name
11	Foundation
12	Hydraulic connection line
13	Empty conduit DN 150 (on site)
14	Condensate drain pipe ≥ Ø 50
15	Mounting bores for floor bracket
16	Empty conduit for bus cable (Ø inside: 9.80)
17	Empty conduit for electric cable (Ø inside: 23.10)
18	Heating water supply and return lines (Ø inside: 26.20)
	•

The foundation must not have any structure-borne sound contact with the building.

i

Minimum clearances



>3000

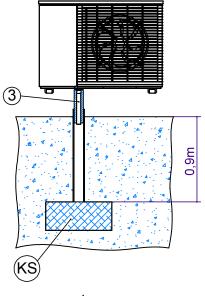
Keys: 819393-10c All dimensions in mm.

Pos.	Name
FW2	Functionally necessary minimum clearances
С	Top view
FA	Complete external facade
LR	Direction of air
>	Minimum clearances

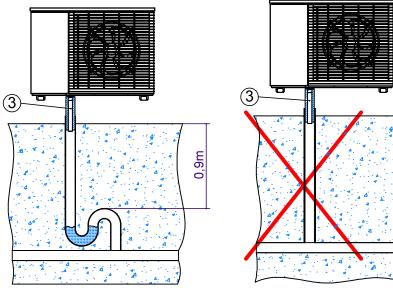


External condensate line connection

LWDV



1a



1b

1c

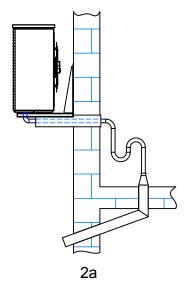
Keys: 819400-1

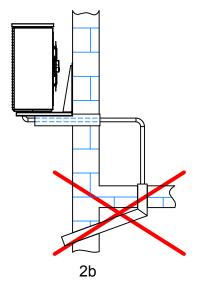
Pos.	Name
KS	Gravel bed for holding up to 50 I condensate per day as buffer zone for seepage
3	Condensate drain pipe DN 40 (on site)
Important:	If the condensate is discharged directly into the ground (figure 1a), the condensate drain pipe (3) must be insulated between the ground and the heat pump.
Important:	If the condensate is discharged directly into a sewage or rainwater pipe, a waste trap must be applied (figure 1b). A vertically installed, insulated plastic pipe must be used above the ground. In addition, no non-return valves or similar must be installed in the drain pipe. The condensate drain pipe must be connected in such a way that the condensate drain pipe can flow freely into the main pipe. If the condensate is discharged into drains or the sewage system, ensure installation with a gradient.

It must be ensured that the condensate is discharged frost-free in all cases (figure 1a and figure 1b).



Internal condensate line connection





Keys: 819400-2

Important: If the condensate line is connected inside a building, a waste trap must be installed with an airtight connection to the drain pipe (see figure 2a). No additional drain pipes may be connected to the condensate drain pipe of the heat pump. The drain pipe into the

No additional drain pipes may be connected to the condensate drain pipe of the heat pump. The drain pipe into the sewage system must be clear, i.e. neither a non-return valve nor a waste trap must be installed downstream of the heat pump's connection cable.

It must be ensured that the condensate is discharged frost-free in all cases (figure 2a).