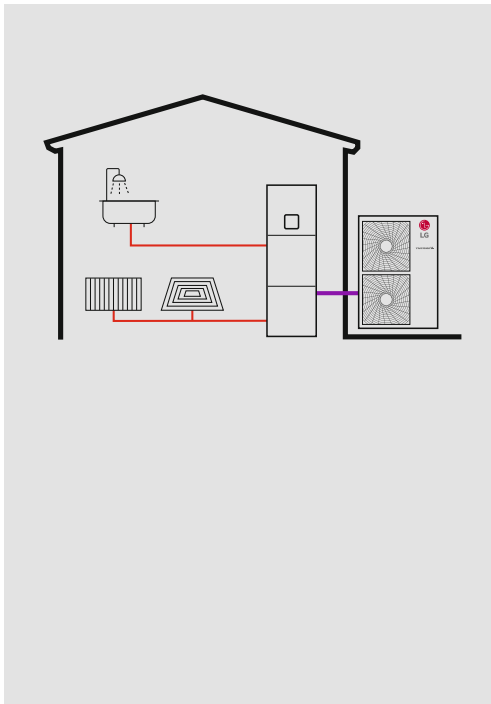


THERMA V™

R410A IWT (GEÏNTEGREERDE WATERTANK)



Uitstekende prestaties en efficiëntie



Dubbele roterende compressor



R410A-koelmiddel



Ruim werkbereik (tot 58 °C)



Warmte-wisselaar met gouden ribben

Gebruikersgemak



Harmonieuze buitenkant



2^e circuit



Boilervan externe leverancier



Automatische aanpassing aan de seizoenen



Lage geluidsmodus

Gemakkelijke installatie en onderhoud



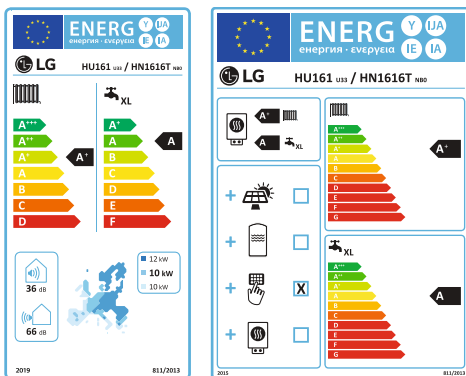
All-in-one



Flexibel leidingontwerp

* Een gedetailleerde beschrijving voor elke functie vindt u op pagina's 266 - 267.

Energielabels

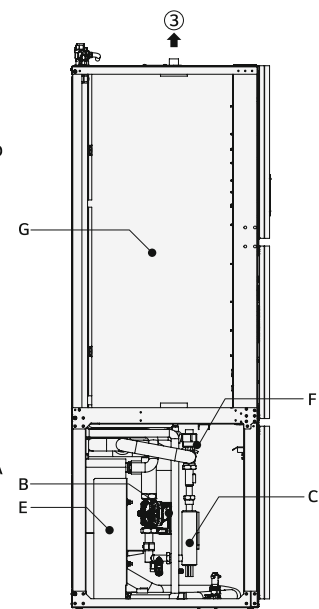
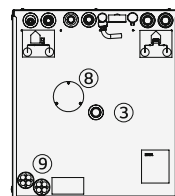


* 16 kW 10 model.

* Indeling A+++ tot D.

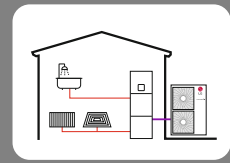
IWT-concept (Integrated Water Tank)

De LG THERMA V R410A IWT met geïntegreerde watertank is een geïntegreerd systeem waarbij de binnenunit is gecombineerd met een tank voor warm tapwater met een afzonderlijke buitenunit die buiten is geplaatst. De THERMA V R410A IWT is meer geschikt voor gebruik in een woning met minder binnenruimten, aangezien de hydraulische componenten zoals de DHW-tank en de buffertank die normaal bijkomend moeten worden geïnstalleerd, in één unit zijn geïntegreerd.



Essentiële componenten

Nr.	Onderdeelnaam	Nr.	Onderdeelnaam
1	Verwarmings-/koelingang	A	Buffertank
2	Verwarmings-/koeluitgang	B	Circulatiepomp
3	Warm sanitair	C	Elektrische stromingsverwarmer
4	DHW - Circulatie	D	TT3000-controller
5	Koud sanitair water - Toevoer	E	Condensator
6	Gasleiding 5/8" - Koelmiddel	F	Driewegklep
7	Vloeistofleiding 3/8" - Koelmiddel	G	DHW-tank
8	Mg. Anode		
9	Bedrading Aansluiting		

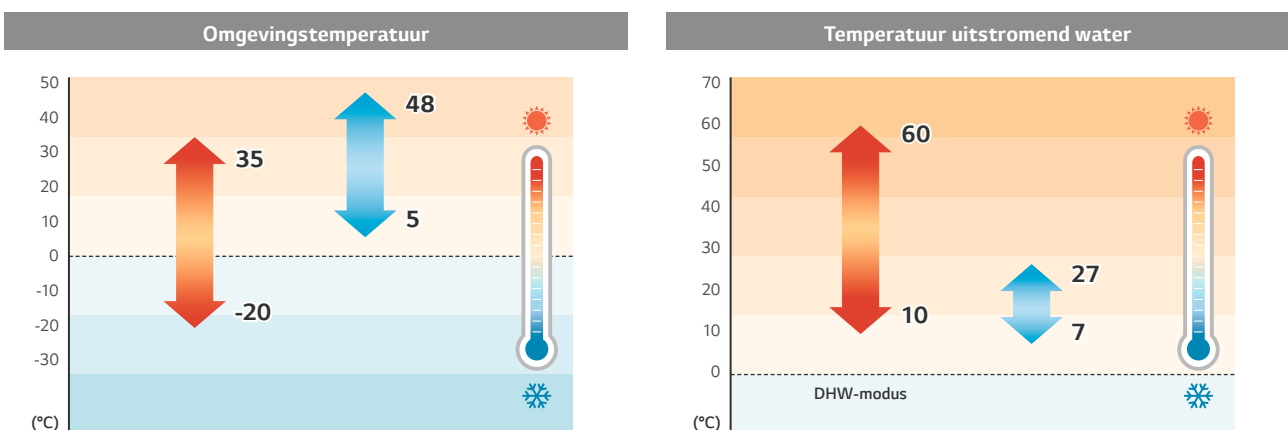


Vermogensbereik (verwarming en koeling)

R410A IWT

Vermogensbereik [kW]	9	12	14	16
Verwarmingsvermogen	● (9,0)	● (12,0)	● (14,0)	● (16,0)
Koelvermogen	● (9,0)	● (10,4)	● (11,0)	● (12,0)

Bedieningsbereik (verwarming en koeling)

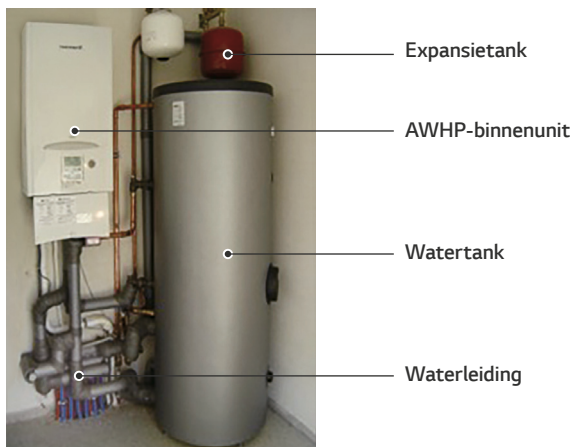


PRODUCTKENMERKEN

Bespaar plaats en tijd

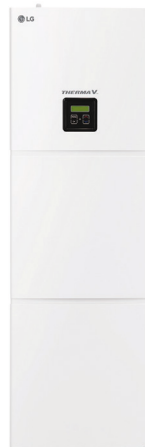
In vergelijking met een conventioneel systeem kan dit model snel en gemakkelijk worden geïnstalleerd en hebt u er ook minder ruimte voor nodig.

Conventioneel



- Voldoende ruimte voor productinstallatie
- Noodzaak om ruimte vrij te maken voor de watertank
- Meer aansluitingswerk waterleidingen en langere installatietijd

R410A IWT (geïntegreerde watertank)



All-in-one

Vereist weinig ruimte voor productinstallatie
200 l grote DHW-tank met extra 40 liter

Minder aansluitingswerk voor de waterleidingen

Gemakkelijker en tijdbesparend

Geavanceerde en harmonieuze buitenkant

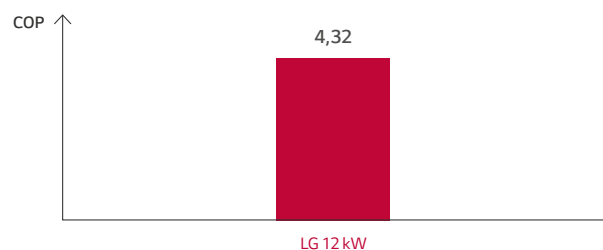
De THERMA V R410A IWT binnenunit is geschikt voor installatie in binnenruimten zoals de bergruimte, de keuken enz. dankzij de geavanceerde en harmonieuze buitenkant met de witte kleur en het moderne design.



Ruimteverwarmingsefficiëntie

De energielabelrichtlijn is een essentiële factor bij de selectie van een verwarmingstoestel op de Europese markt. De R410A IWT heeft een energielabelclassificatie (ErP) van A+++.

* Testomstandigheden
Omgevingstemp. 7 °C / Temp. uitstromend water 35 °C, op basis van set van 12 kW



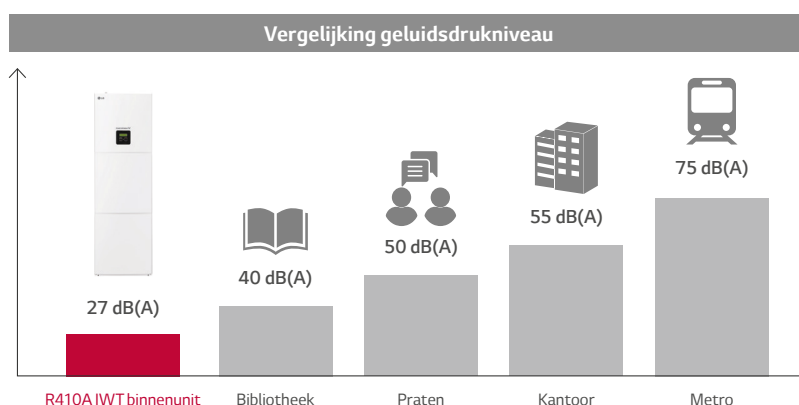
Stille werking

Creëert door zijn stille werking een kalme en rustige sfeer bij installatie binnen.

Werkingsgeluid

- Geluidsvermogensniveau: 36 dB(A)
- Geluidsdrukniveau: 27 dB(A)

Stille werking.
Kalmte en rust in de binnenomgeving.

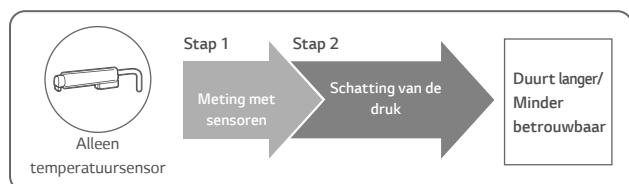


Temperatuur- + drukregeling en snelle werkingsrespons

Drukregeling zorgt voor snellere en nauwkeurigere respons dan temperatuurregeling, waardoor de gewenste watertemperatuur 44 % sneller wordt bereikt.

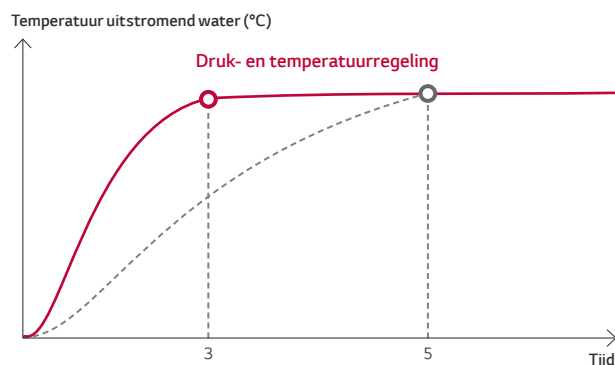
Sneller en nauwkeuriger met drukregeling

- Snelle reactie door meting met sensoren en werkingsklare toestand.
- Verzekert snel en betrouwbaar bereiken van gewenste temperatuur.



Snel bereiken van gewenste temperatuur

- Drukregeling werkt tot 44 % sneller om de gewenste temperatuur te bereiken met een hoge mate van nauwkeurigheid en stabiliteit.



* Gebaseerd op interne testgegevens.

PRODUCTSPECIFICATIE

R410A IWT

Binnenunit

HN1616T NB0

Buitenunit

HU091 U43

HU121 U33

HU141 U33

HU161 U33

HU123 U33

HU143 U33

HU163 U33

Verplicht te gebruiken accessoire: PP485B00K.ENCXLEU



EHPA voor Oostenrijk,
Zwitserland en
Duitsland

R410A

58 °C

A++

Kenmerken

- Ruimte- (vloer)verwarmingsefficiëntie met ErP A++¹⁾ klasse
- Maximum 58°C LWT
- Warmtewisselaar met gouden ribben Gold Fin Coating
- EHPA²⁾-certificatie

1) bij gemiddelde klimaatomstandigheden voor middelhoge temperatuurtoepassing

2) Door EHPA goedgekeurd model: HU091 U43, HU123 U33, HU143 U33, HU163 U33

Modellenassortiment

Categorie	Unit	Modelnaam			
		Vermogen (kW)			
		9,0	12,0	14,0	16,0
1-fasig model 220 - 240 V, 1Ø, 50 Hz	Buitenunit	HU091 U43	HU121 U33	HU141 U33	HU161 U33
	Binnenunit	HN1616T NB0			
3-fasig model 380 - 415 V, 3Ø, 50 Hz	Buitenunit	-	HU123 U33	HU143 U33	HU163 U33
	Binnenunit	-	HN1616T NB0		

Opmerking

1. PP485B00K. ENCXLEU vereist voor communicatie tussen buiten- en binnenunit. (installeer bij buitenunit)

2. Afhankelijk van de omstandigheden van de fabrikant kan de productie van dit product zonder voorafgaand bericht worden stopgezet.

Seizoensgebonden energie

Beschrijving			Buitenunit	HU091 U43	HU121 U33	HU141 U33	HU161 U33
					HU123 U33	HU143 U33	HU163 U33
			Binnenunit	HN1616T NB0			
Ruimteverwarming (overeenkomstig EN 14825)	Gemiddelde temperatuur afgevoerd klimaatwater 35 °C	SCOP	W/W	4,04	4,20	4,15	4,15
		Seizoensgebonden verwarmingsefficiëntie voor ruimten (η_s)	%	159	165	163	163
		Seizoensgebonden verwarmingsefficiëntie voor ruimten Klasse (indeling A+++ tot D)	-	A++	A++	A++	A++
	Gemiddelde temperatuur afgevoerd klimaatwater 55 °C	SCOP	-	2,88	3,00	3,00	3,00
		Seizoensgebonden verwarmingsefficiëntie voor ruimten (η_s)	%	112	117	117	117
		Seizoensgebonden verwarmingsefficiëntie voor ruimten Klasse (indeling A+++ tot D)	-	A+	A+	A+	A+
Efficiëntie warm tapwater overeenk. EN 16147	Algemeen Gemiddeld klimaat	aangegeven ladingsprofiel	-	XL	XL	XL	XL
		Waterverwarmingsefficiëntie (η_{wh})	%	98	89	89	89
		Energie-eff. waterverwarming Klasse (indeling A+ tot F)	-	A	A	A	A

Nominale capaciteit en opgenomen vermogen

Description		OAT (DB)	LWT (DB)	Outdoor Unit	HU091 U43	HU121 U33	HU141 U33	HU161 U33
				Indoor Unit		HU123 U33	HU143 U33	HU163 U33
Nominal Capacity	Heating	7°C	35°C	kW	9.00	12.00	14.00	16.00
		7°C	55°C		6.70	12.50	12.50	12.50
		2°C	35°C		7.30	9.81	10.37	11.45
	Cooling	35°C	18°C		9.00	10.40	11.00	12.00
		35°C	7°C		6.43	6.75	7.14	7.79
		HN1616T NBO				2.23	2.78	3.43
Nominal Power Input	Heating	7°C	35°C	kW	2.23	2.78	3.43	4.18
		7°C	55°C		2.79	4.89	4.89	4.89
		2°C	35°C		2.27	3.12	3.30	3.64
	Cooling	35°C	18°C		2.88	3.30	3.53	4.00
		35°C	7°C		2.76	3.20	3.42	3.87
		HN1616T NBO				4.04	4.32	4.08
COP	Heating	7°C	35°C	W/W	2.40	2.56	2.56	2.56
		7°C	55°C		3.22	3.14	3.14	3.15
		2°C	35°C		3.12	3.15	3.12	3.00
EER	Cooling	35°C	18°C	W/W	2.33	2.11	2.09	2.01
		35°C	7°C					

Productspecificatie (buiteneenheid)

Description			Unit	HU091 U43	HU121 U33	HU141 U33	HU161 U33	HU123 U33	HU143 U33	HU163 U33
Operation Range (outdoor temp.)	Heating	Min. - Max.	°CDB	-20 - 35						
	Cooling		°CDB	5 - 48						
Compressor	Quantity		EA	1						
	Type		-	Hermetic Sealed Twin Rotary						
Refrigerant	Type		-	R410A						
	GWP (global warming potential)		-	2,087.5						
	Precharged Amount ¹⁾		g	1,800						2,300
	t-CO ₂ eq		-	3,758						4,801
Piping Connections	Outer Diameter	Gas	mm(inch)	Ø15.88 (5/8)						
		Liquid	mm(inch)	Ø9.52 (3/8)						
	Length	Standard	m	7.5						
		Max.	m	50						
	Level Difference	Max.	m	30						
	Chargeless-Pipe Length		m	7.5						
Additional Charging Volume		g/m	40							
Rated Water Flow Rate (at LWT 35°C)			LPM	26.0	34.0	40.0	46.0	34.0	40.0	46.0
Sound Power Level	Heating	Rated	dB(A)	65						66
Sound Pressure Level (at 1m)	Heating	Rated	dB(A)	57						58
Dimensions	Heating	Rated	mm	950x834x330			950 x 1,380 x 330			
Weight	Unit	WxHxD	kg	59.0						94.0
Power Supply	Voltage, Phase, Frequency		V, Ø, Hz	220 - 240, 1, 50				380 - 415, 3, 50		
	Rated Running Current	Heating	A	9.7	12.1	14.9	16.3	7.0	8.6	10.5
		Cooling	A	12.5	14.3	15.3	17.4	8.3	8.8	10.0
	Recommended Circuit Breaker			A	30	40			20	
Wiring Connections	Power Supply Cable (included earth, H07RN-F)		mm ² x cores	4.0 x 3C	6.0 x 3C			2.5 x 5C		

1) After installation, additional refrigerant must be charged 800g for HU091 U43 and 1,200g for the others.

Note

- Due to our policy of innovation some specifications may be changed without notification.
- Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
- Sound power level is measured on the rated condition in the reverberation rooms by ISO 9614 standard. Therefore, these values can be increased owing to ambient conditions during operation. Sound pressure level is converted values from sound power level as per distance.
- Performances are based on the following conditions (It is according to EN14511):
Interconnected pipe length is standard length and difference of elevation (outdoor - indoor unit) is 0m.
- This product contains fluorinated greenhouse gases.

PRODUCTSPECIFICATIE

R410A IWT

Productspecificatie (binnenunit)

Description			Unit	HN1616T NBO	
Operation Range (leaving water)	Heating	Min. - Max.	°CDB	25 - 58	
	Cooling		°CDB	7 - 25	
	DHW		°CDB	10 - 60	
DHW Tank	Type		-	Hydro module with integrated boiler	
	Material		-	Enameled steel	
	Water Volume	Rated	ℓ	200	
	Internal Thermal Protect limit		°C	95	
	Maximum Water Pressure Limit		bar	10	
	Insulation	Material		-	Polyurethane foam
		Thickness		mm	50
Heat loss (for 24hr)			kWh	1.67	
Buffer Tank	Water Volume	Rated	ℓ	40	
	Material		-	Steel powder coated	
	Insulation Material		-	Closed cell foamed rubber	
Piping Connections	Water Circuit	Inlet	mm (inch)	Male PT 25.4 (1)	
		Outlet	mm (inch)	Male PT 25.4 (1)	
	DHW Tank Water Circuit	Cold Inlet	mm (inch)	Male PT 19.05 (3/4)	
		Hot Outlet	mm (inch)	Male PT 25.4 (1)	
	Refrigerant Circuit	Recirculation	mm (inch)	Male PT 19.05 (3/4)	
		Gas	mm (inch)	Ø15.88 (5/8)	
Sound Power Level	Heating	Rated	dB(A)	36	
Sound Pressure Level (at 1m)	Heating	Rated	dB(A)	27	
Dimensions	Unit	W x H x D	mm	607 x 2,079 x 725	
Weight	Unit		kg	228	
Electrical Specification			Unit	HN1616T NBO	
Back up Heater (1) (1 phase)	Type		-	Sheath	
	Number of Heating Coil		EA	1	
	Capacity Combination		kW	2	
	Operation		-	Automatic	
	Heating Steps		Step	1	
	Power Supply		V, Ø, Hz	230, 1, 50	
	Rated Current		A	8.7	
Wiring Connections	Power Supply Cable (included earth, H07RN-F)		mm ² x cores	4.0 x 3C	
Back up Heater (2) (1 phase)	Type		-	Sheath	
	Number of Heating Coil		EA	2	
	Capacity Combination		kW	2.0 + 2.0	
	Operation		-	Automatic	
	Heating Steps		Step	1	
	Power Supply		V, Ø, Hz	230, 1, 50	
	Rated Current		A	17.4	
Wiring Connections	Power Supply Cable (included earth, H07RN-F)		mm ² x cores	4.0 x 3C	
Back up Heater (3) (3 phase)	Type		-	Sheath	
	Number of Heating Coil		EA	3	
	Capacity Combination		kW	2.0 + 2.0 + 2.0	
	Operation		-	Automatic	
	Heating Steps		Step	1	
	Power Supply		V, Ø, Hz	400, 3, 50	
	Rated Current		A	8.7	
Wiring Connections	Power Supply Cable (included earth, H07RN-F)		mm ² x cores	2.5 x 5C	

Note

- Due to our policy of innovation some specifications may be changed without notification.
- Wiring cable size must comply with the applicable local and national code. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
Sound power level is measured on the rated condition in the reverberation rooms by ISO 9614 standard.
Therefore, these values can be increased owing to ambient conditions during operation.
- This is true for pipe connections of suitable dimensions and joint distance of up to 20m.
Pipe dimensions and types of pumps must always be verified or determined by the designing engineer of electrical installations.
Circulation pumps must be dimensioned in such a way so as to ensure rated voltage (see table) through the device.
- The guideline about cable is taken into account laying B2 from the table A.52.4 - IEC 60364-5-52. The cable in the installation pipe is fixed to the wall.
- The size of electrical heater and the fuses depend on the choice of the connection power.
- Joint maximal load (circulation pumps, electronic valves ...) which can be connected to or powered by the internal unit, must not exceed the specified value. Higher consumed parts (i.e. pumps) should have their own supply.
- This product contains fluorinated greenhouse gases.

Prestatietabel voor verwarming

Maximaal verwarmingsvermogen (inclusief outdooi-effect)

HU091 U43 + HN1616T NB0

Outdoor Temperature	LWT 30°C	LWT 35°C	LWT 40°C	LWT 45°C	LWT 50°C	LWT 55°C
	TC	TC	TC	TC	TC	TC
-20°C DB	7.00	6.58	6.24	5.89	-	-
-15°C DB	7.39	6.95	6.59	6.22	5.84	-
-7°C DB	8.01	7.53	7.44	7.33	7.24	7.13
-4°C DB	7.95	7.47	7.47	7.47	7.45	7.43
-2°C DB	7.89	7.42	7.48	7.54	7.60	7.64
2°C DB	7.77	7.30	7.50	7.69	7.87	8.04
7°C DB	9.58	9.00	8.89	8.78	8.66	8.55
10°C DB	9.82	9.23	9.09	8.95	8.81	8.67
15°C DB	10.22	9.61	9.43	9.24	9.06	8.88
18°C DB	10.46	9.84	9.63	9.42	9.21	9.00

HU121 U33 + HN1616T NB0 / HU123 U33 + HN1616T NB0

Outdoor Temperature	LWT 30°C	LWT 35°C	LWT 40°C	LWT 45°C	LWT 50°C	LWT 55°C
	TC	TC	TC	TC	TC	TC
-20°C DB	10.29	10.39	10.72	10.61	-	-
-15°C DB	10.32	10.41	10.75	11.07	10.53	-
-7°C DB	10.34	10.44	10.51	10.78	10.57	10.63
-4°C DB	10.12	10.23	10.47	10.77	10.84	10.92
-2°C DB	10.01	10.11	10.42	10.73	10.96	11.12
2°C DB	9.71	9.81	10.23	10.65	11.08	11.51
7°C DB	11.88	12.00	12.00	12.00	12.00	12.00
10°C DB	12.38	12.51	12.55	12.59	12.63	12.67
15°C DB	13.23	13.37	13.47	13.58	13.68	13.79
18°C DB	13.73	13.88	14.03	14.17	14.32	14.46

HU141 U33 + HN1616T NB0 / HU143 U33 + HN1616T NB0

Outdoor Temperature	LWT 30°C	LWT 35°C	LWT 40°C	LWT 45°C	LWT 50°C	LWT 55°C
	TC	TC	TC	TC	TC	TC
-20°C DB	11.72	11.42	11.12	10.61	-	-
-15°C DB	11.94	11.63	11.46	11.07	10.53	-
-7°C DB	12.29	11.97	11.81	11.66	11.47	11.30
-4°C DB	11.76	11.45	11.54	11.61	11.65	11.73
-2°C DB	11.51	11.21	11.42	11.64	11.83	12.01
2°C DB	10.65	10.37	10.94	11.50	12.04	12.59
7°C DB	14.38	14.00	13.83	13.65	13.48	13.30
10°C DB	15.02	14.63	14.38	14.14	13.89	13.64
15°C DB	16.09	15.67	15.30	14.94	14.57	14.21
18°C DB	16.73	16.29	15.86	15.42	14.99	14.55

HU161 U33 + HN1616T NB0 / HU163 U33 + HN1616T NB0

Outdoor Temperature	LWT 30°C	LWT 35°C	LWT 40°C	LWT 45°C	LWT 50°C	LWT 55°C
	TC	TC	TC	TC	TC	TC
-20°C DB	12.25	11.61	11.12	10.61	-	-
-15°C DB	12.78	12.12	11.61	11.07	10.53	-
-7°C DB	13.64	12.93	12.55	12.16	11.75	11.33
-4°C DB	13.15	12.47	12.42	12.36	12.26	12.16
-2°C DB	12.81	12.14	12.32	12.47	12.61	12.71
2°C DB	12.07	11.45	12.08	12.67	13.26	13.82
7°C DB	16.88	16.00	15.80	15.60	15.40	15.20
10°C DB	17.79	16.87	16.51	16.14	15.78	15.42
15°C DB	19.31	18.31	17.68	17.05	16.41	15.78
18°C DB	20.22	19.17	18.38	17.59	16.79	16.00

Note

1. DB : Dry Bulb Temperature (°C), LWT : Leaving Water Temperature (°C), LPM : Liters Per Minute (ℓ/min), TC : Total Capacity (kW)
2. Direct interpolation is permissible. Do not extrapolate.
3. Measuring procedure follows EN-14511.
 - Rated values are based on standard conditions and it can be found on specifications.
 - Above table values may not be matched according to installation condition. Except for rated value, the performance is not guaranteed.
 - In accordance with the test standard (or nations), the rating will vary slightly.
4. The shaded areas are not guaranteed continuous operation.

PRODUCTSPECIFICATIE

Prestatietabel voor koeling

Max. koelvermogen

HU091 U43 + HN1616T NB0

Outdoor Temperature	LWT 7°C	LWT 10°C	LWT 13°C	LWT 15°C	LWT 18°C	LWT 20°C	LWT 22°C
	TC	TC	TC	TC	TC	TC	TC
20°C DB	9.00	9.33	9.66	9.88	10.21	10.75	-
30°C DB	9.00	9.11	9.22	9.29	9.40	9.89	-
35°C DB	9.00	9.00	9.00	9.00	9.00	9.47	9.94
40°C DB	7.80	8.13	8.45	8.67	9.00	9.25	9.49
45°C DB	6.60	7.25	7.91	8.35	9.00	9.02	9.04

HU121 U33 + HN1616T NB0 / HU123 U33 + HN1616T NB0

Outdoor Temperature	LWT 7°C	LWT 10°C	LWT 13°C	LWT 15°C	LWT 18°C	LWT 20°C	LWT 22°C
	TC	TC	TC	TC	TC	TC	TC
20°C DB	10.40	10.51	10.63	10.71	10.82	11.51	-
30°C DB	10.40	10.44	10.48	10.50	10.54	11.21	-
35°C DB	10.40	10.40	10.40	10.40	10.40	11.07	11.73
40°C DB	9.73	9.91	10.09	10.22	10.40	10.99	11.57
45°C DB	9.06	9.42	9.79	10.03	10.40	10.91	11.41

HU141 U33 + HN1616T NB0 / HU143 U33 + HN1616T NB0

Outdoor Temperature	LWT 7°C	LWT 10°C	LWT 13°C	LWT 15°C	LWT 18°C	LWT 20°C	LWT 22°C
	TC	TC	TC	TC	TC	TC	TC
20°C DB	11.00	11.12	11.25	11.33	11.45	12.18	-
30°C DB	11.00	11.04	11.08	11.11	11.15	11.86	-
35°C DB	11.00	11.00	11.00	11.00	11.00	11.70	12.40
40°C DB	10.29	10.48	10.68	10.81	11.00	11.62	12.23
45°C DB	9.58	9.97	10.35	10.61	11.00	11.53	12.06

HU161 U33 + HN1616T NB0 / HU163 U33 + HN1616T NB0

Outdoor Temperature	LWT 7°C	LWT 10°C	LWT 13°C	LWT 15°C	LWT 18°C	LWT 20°C	LWT 22°C
	TC	TC	TC	TC	TC	TC	TC
20°C DB	12.00	12.13	12.27	12.36	12.49	13.29	-
30°C DB	12.00	12.04	12.09	12.12	12.16	12.94	-
35°C DB	12.00	12.00	12.00	12.00	12.00	12.77	13.53
40°C DB	11.23	11.44	11.65	11.79	12.00	12.68	13.35
45°C DB	10.45	10.87	11.30	11.58	12.00	12.58	13.16

Note

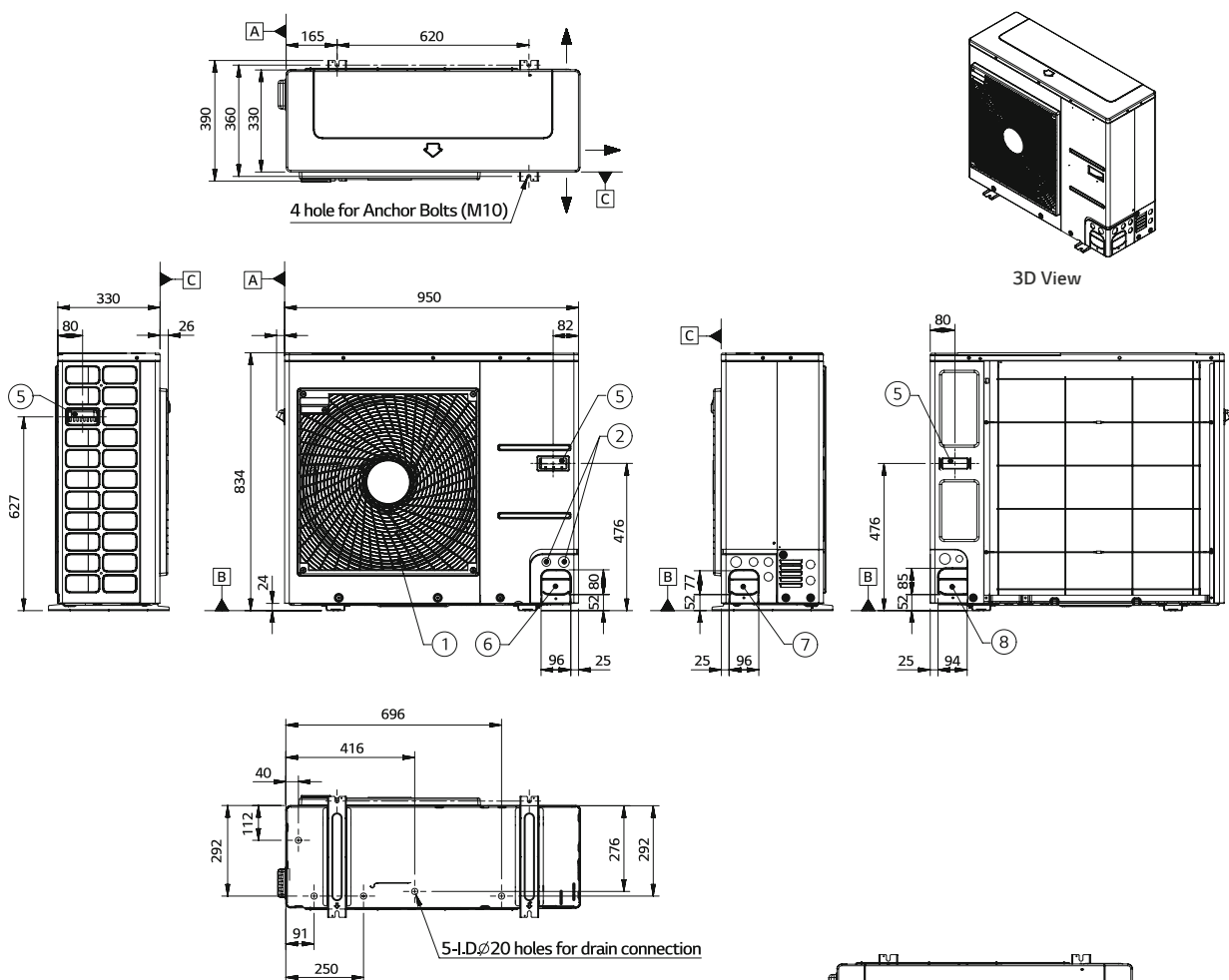
1. DB : Dry Bulb Temperature (°C), LWT : Leaving Water Temperature (°C), LPM : Liters Per Minute (ℓ/min), TC : Total Capacity (kW)
2. Direct interpolation is permissible. Do not extrapolate.
3. Measuring procedure follows EN-14511.
 - Rated values are based on standard conditions and it can be found on specifications.
 - Above table values may not be matched according to installation condition. Except for rated value, the performance is not guaranteed.
 - In accordance with the test standard (or nations), the rating will vary slightly.
4. The shaded areas are not guaranteed continuous operation.

Tekeningen

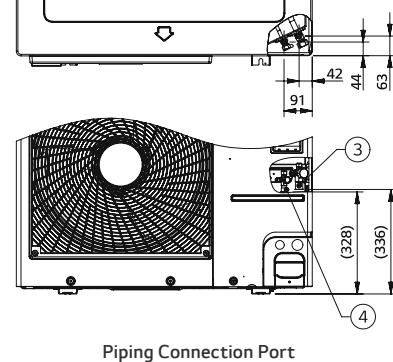
Category	Unit	Model Name			
		Capacity (kW)			
		9.0	12.0	14.0	16.0
1 Phase Model 220 ~ 240V, 1Ø, 50Hz	Outdoor Unit	HU091 U43	HU121 U33	HU141 U33	HU161 U33
	Indoor Unit	HN1616T NB0			
3 Phase Model 380 ~ 415V, 3Ø, 50Hz	Outdoor Unit	-	HU123 U33	HU143 U33	HU163 U33
	Indoor Unit	-	HN1616T NB0		

HU091 U43

[Unit : mm]



No.	Part Name	Description
1	Air Outlet	-
2	Power and Communication Cable Hole	-
3	Gas Pipe Connection	Flare joint
4	Liquid Pipe Connection	Flare joint
5	Handle	-
6	Pipe Routing Hole (front)	-
7	Pipe Routing Hole (side)	-
8	Pipe Routing Hole (back)	-



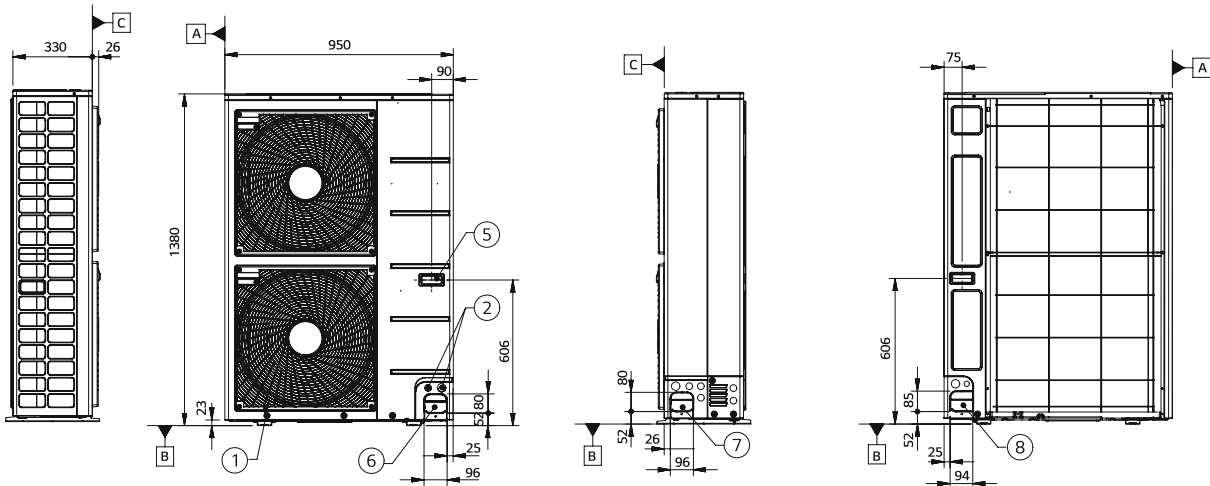
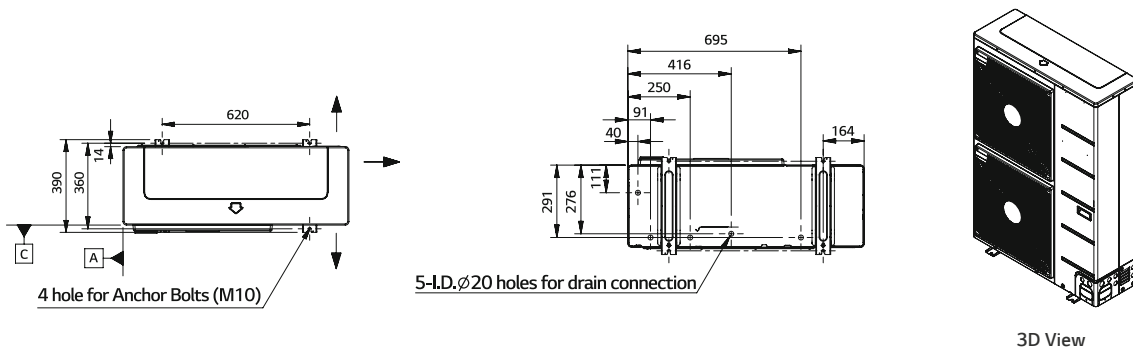
Piping Connection Port

PRODUCTSPECIFICATIE

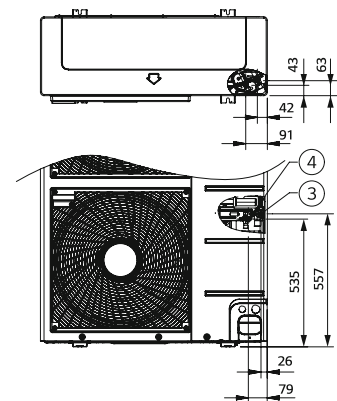
Tekeningen

HU121 U33 / HU141 U33 / HU161 U33 / HU123 U33 / HU143 U33 / HU163 U33

[Unit : mm]



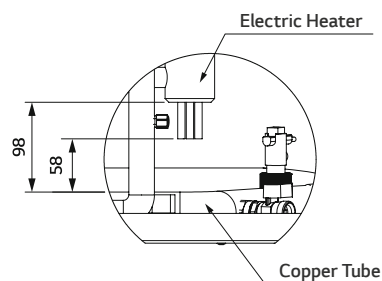
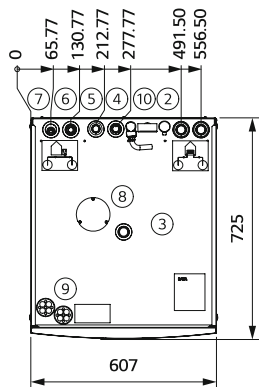
No.	Part Name	Description
1	Air Outlet	-
2	Power and Communication Cable Hole	-
3	Gas Pipe Connection	Flare joint
4	Liquid Pipe Connection	Flare joint
5	Handle	-
6	Pipe Routing Hole (front)	-
7	Pipe Routing Hole (side)	-
8	Pipe Routing Hole (back)	-



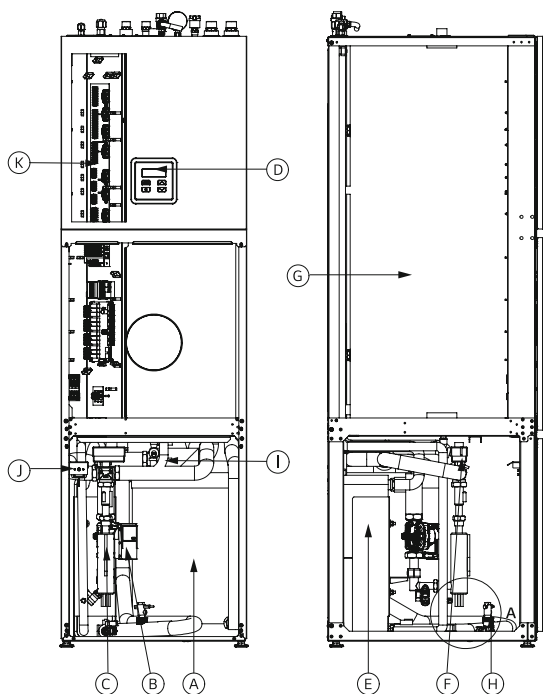
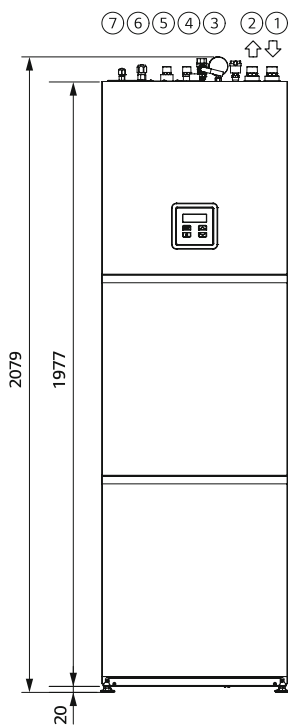
Piping Connection Port

HN1616T NB0

[Unit : mm]



DETAILA
SCALE 1 : 5



No.	Part Name	No.	Part Name
1	Heating/Cooling Inlet	A	Buffer Tank
2	Heating/Cooling Outlet	B	Circulating Pump
3	Warm Sanitary	C	Electric Flow Heater
4	DHW - Circulation	D	TT3000 Controller
5	Cold Sanitary Water - Supply	E	Condenser
6	Gas Pipe 5/8" - Refrigerant	F	3 Way Valve
7	Liquid Pipe 3/8" - Refrigerant	G	DHW Tank
8	Mg. Anode	H	Flow Switch
9	Wiring Connection	I	Ball Valve
10	Safety Valve, Pressure Gauge, Air Vent	J	Safety Thermostat
		K	Wiring Connection

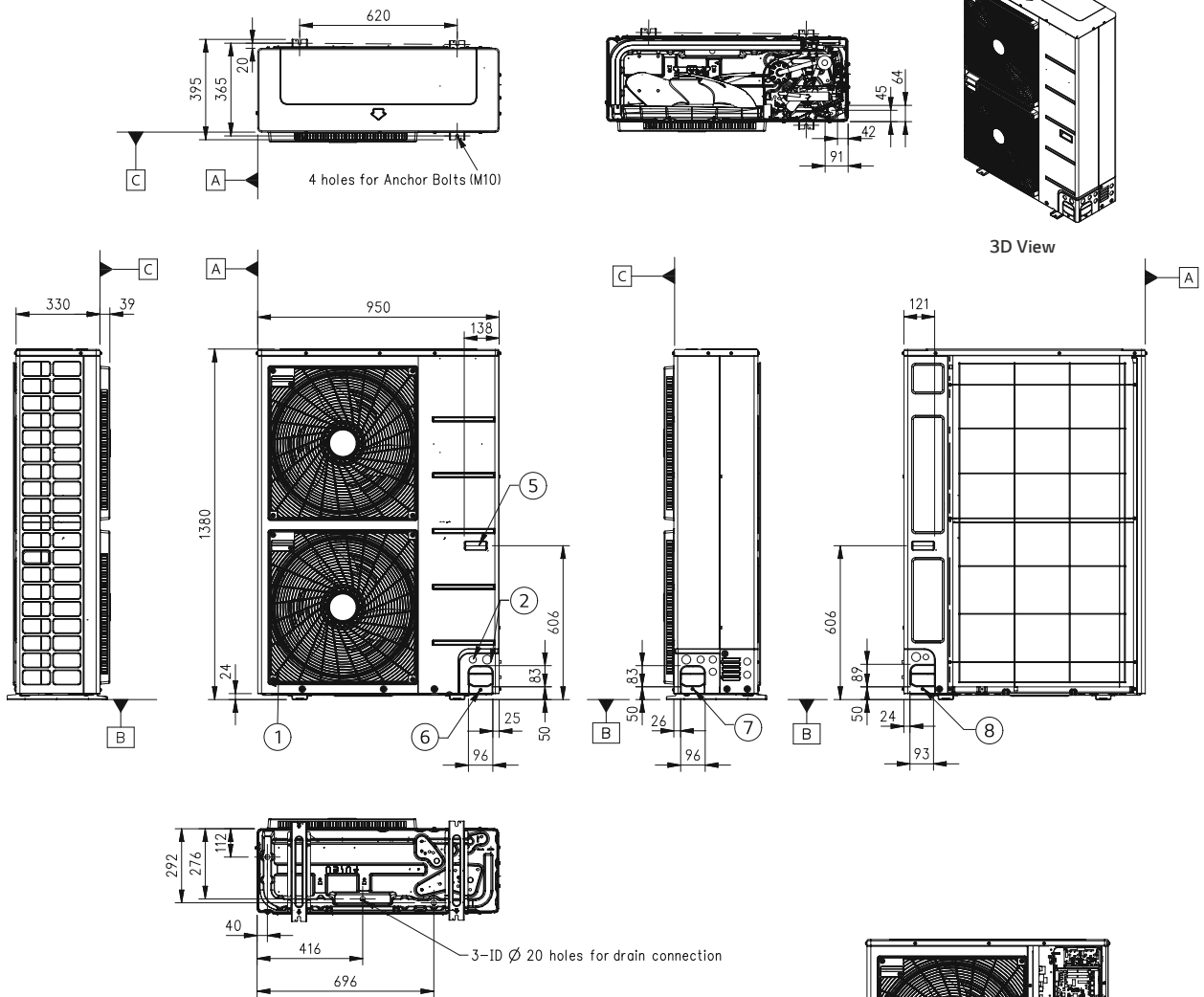
PRODUCTSPECIFICATIE

Tekeningen

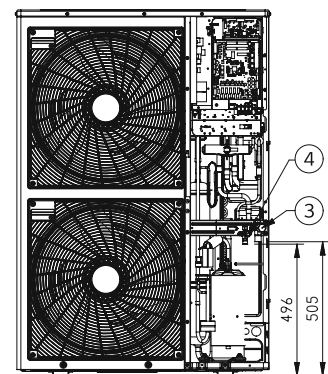
Category	Unit	Model Name
		Capacity (kW)
		16.0
1 Phase Model 220 - 240V, 1Ø, 50Hz	Outdoor Unit	HU161HA U33
	Indoor Unit	HN1610H NK3

HU161HA U33

[Unit : mm]



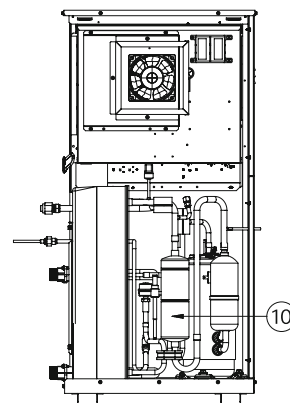
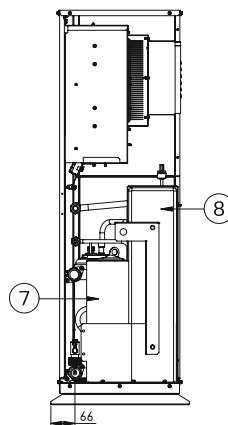
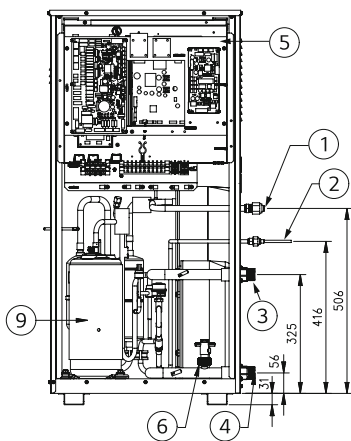
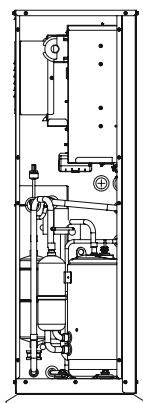
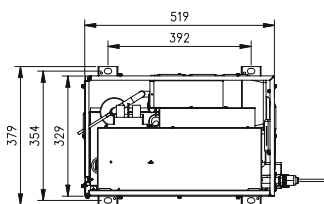
No.	Part Name	Description
1	Air Outlet	-
2	Power and Communication Cable Hole	-
3	Gas Pipe Connection	Flare joint
4	Liquid Pipe Connection	Flare joint
5	Handle	-
6	Pipe Routing Hole (front)	-
7	Pipe Routing Hole (side)	-
8	Pipe Routing Hole (back)	-



Piping Connection Port

HN1610H NK3

[Unit : mm]



No.	Part Name	Description
1	Refrigerant Pipe	Ø9.52 (mm)
2	Refrigerant Pipe	Ø15.88 (mm)
3	Leaving Water Pipe	Male PT 25mm (1 inch)
4	Entering Water Pipe	Male PT 25mm (1 inch)
5	Control Box	PCB and terminal blocks
6	Flow Switch	Minimum operation range at 15LPM
7	Plate Heat Exchanger	Heat exchanger between refrigerant and water
8	Plate Heat Exchanger	Heat exchanger between refrigerant and refrigerant
9	Compressor	EPT525MBA
10	Accumulator	716 cc