

# YLHD

## Air to water scroll heat pump

YLHD 0040 to 0150

A complete range from 39.8 kW up to 145 kW



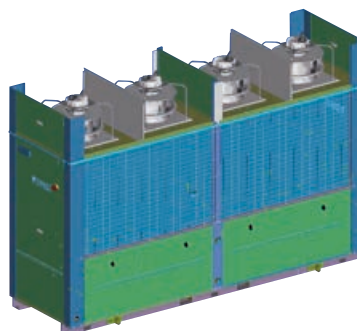
The new **YORK YLHD** air to water scroll heat pumps with powered fans are ideal solution for units to be installed in technical rooms or in louvered/hidden spaces on the roof.

Sharing the reliable and proven designed with YLHA, these new units using R410A aims to help the installer and the user to help to find solutions for special and difficult installations.

The bigger sizes (from 100 to 150 kW) utilize new EC Inverter radial fans, that will keep always the right performance for the unit at any outdoor condition.

### Features

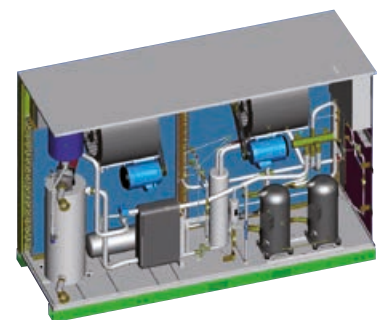
- Centrifugal or radial fans
- Scroll compressor
- Vertical and horizontal discharge
- Integrated Hydro kit (P versions)
- LAK (-18°C) standard (sizes 100-150)
- Flow switch standard



EC Radial Fans (sizes 100 to 150), using new high efficiency ventilation technology to improve the overall performance.

### Options / Accessories

- Vertical Discharge kit (sizes 40 to 70)
- Low Noise (sizes 100 to 150)
- Dual Water Pumps (sizes 100 to 150)
- Water filter and water flow switch
- Antivibration mounting
- Remote control and remote terminal
- BMS communication (Carel and Modbus protocol)



Integrated Hydrokit, shared with YLHA product platform, for a compact and quick installation.



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## Technical features

T Three phases supply P Hydro Pack H Heat pump

Models		YLHD					
		0040 T-TP	0070 T-TP	0100 T-TP	0120 T-TP	0150 T-TP	
Cooling capacity (1)	kW	39.8	67.5	95.4	116.5	142.5	
	Heating capacity (1)	kW	43.2	72.5	104.6	120.1	159.5
		Total Input Power cool/heat mode (1)	kW	15.13 / 15.6	26.57 / 26.46	36.27 / 37.63	42.21 / 43.2
	EER / COP (1)		2.63 / 2.77	2.54 / 2.74	2.63 / 2.78	2.76 / 2.78	2.37 / 2.7
	SCOP		3.3	3.38	3.7	3.57	3.42
	ηs, h		129	136	145	140	134
	Capacity steps	%	50-100		25-50-75-100		
Sound power level	dB(A)	83	86	86	86	87	
Compressor	Type	Scroll					
	Quantity	2	2	4	4	4	
Air side heat exchanger	Fans quantity	2	2	4	4	4	
	Nominal air flow	m³/h	18 000	23 000	36 000		48 000
	Nominal static pressure	Pa	100	150	200		
	Working ambient temp. cool. / heat. mode		(4) (-18°C) ~ 46°C / -10°C ~ 20°C		-18°C ~ 46°C / -10°C ~ 20°C		
Water side heat exchanger	Type	Single plate heat exchanger		Dual plate heat exchanger			
	Unit water volume	Litres	84	92	193	195	214
	Pump Type	Multistage horizontal pump					
	Nominal water flow	l/h	6 880	12 040	17 030	20 470	24 940
	Available pressure (1) (2)	kPa	105	120	187	202	186
	Pressure drop (1) (3)	kPa	31	53	54	32	24.5
	Working range water leaving temperature cooling / heating (5)		-5°C ~ 15°C / 30°C ~ 50°C				
Water connections	inch	2"		2-1/2"			
Dimensions & Weight	Height	mm	1 794	1 794	2 460	2 460	2 480
	Width	mm	2 659	2 659	3 466	3 416	3 768
	Depth	mm	897	897	1 101	1 101	1 101
	Weight without pack / pack	kg	750 / 790	760 / 800	1 284 / 1 380	1 284 / 1 380	1 700 / 1 796
El. supply	Voltage / Phases / Frequency	V/ph/hz 400 / 3 / 50 + N + E					

(1) net values at Eurovent nominal conditions (2) version P with hydro kit with filter (3) version without hydro kit (4) -18°C with LAK option (5) below 6°C with glycol  
 Nominal conditions: Cooling capacities in kW given for 7°C water leaving temperature Δt 5°C and 35°C ambient temperature.  
 Heating capacities in kW given for 45°C water leaving temperature and 7°C ambient temperature.  
 SCOP calculated according to EN14511 and EN14825. For other Ecodesign calculations, please contact your JCI representative.  
 ηs calculated according to Ecodesign regulation for heating (813/2013).

## Compatibility table / Codes

Models	0040 T	0070 T	0100 T	0120 T	0150 T
Heat pump unit YLHD	S668574083	S668577083	S668571083	S668571283	S668571583
Models	0040 TP	0070 TP	0100 TP	0120 TP	0150 TP
Heat pump unit YLHD	S668574080	S668577080	S668571080	S668571280	S668571580

Use this unit code when a factory fitted option is NOT required

### Accessories (Supplied loose)

AVM mounting	S613029002	S613028180	S613021580		
Flow switch	S611992021				
Remote control	S613802011				
Remote terminal	S613802231			-	
Cable for remote connection of the terminal	-		S613802241		
B.M.S. Communication	S613802041		S613802051		

Models	0040 T	0070 T	0100 T	0120 T	0150 T
Heat pump unit YLHD	S668000266	S668000270	S668000274	S668000278	S668000282
Models	0040 TP	0070 TP	0100 TP	0120 TP	0150 TP
Heat pump unit YLHD	S668000267	S668000271	S668000275	S668000279	S668000283

Use this unit code when a factory fitted option is required

### Options (Factory fitted)

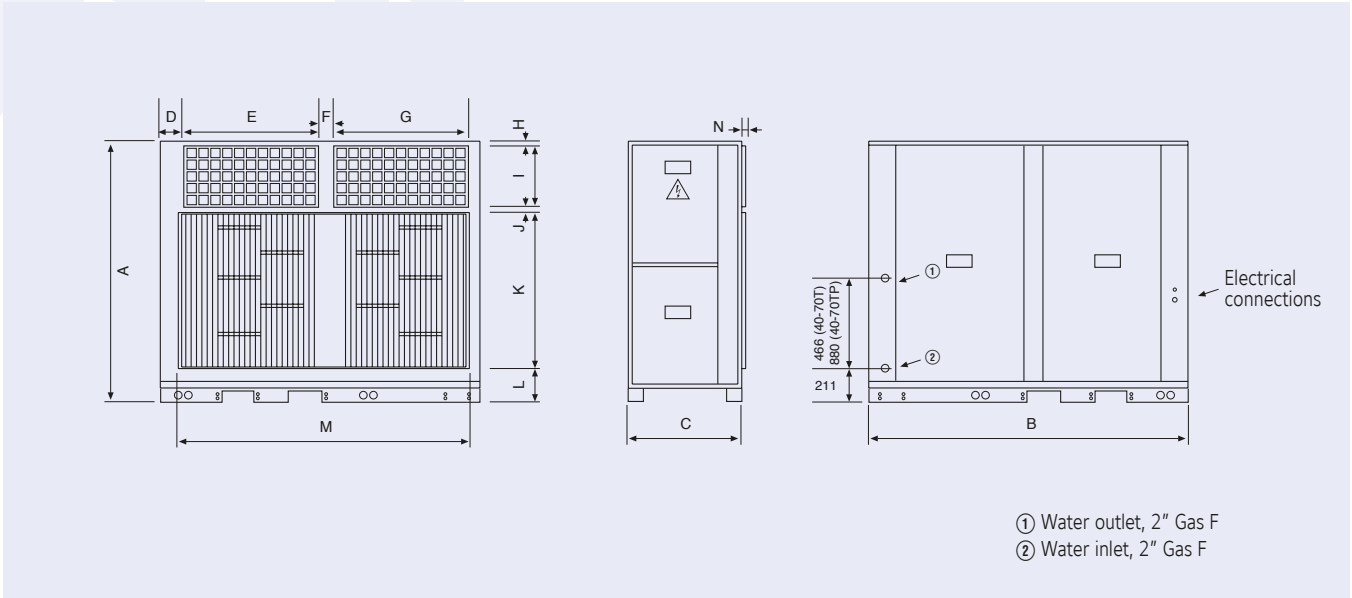
Low noise	S613990550	NA	S613991050	S613991285	S613991584
Dual pump	NA	NA	S613991040	S613991286	S613991585
Coil guard net	Standard		S613995093		S613995094
Low Ambient Kit	S613111084		Standard		
Soft start	S606744693		S606744694		
Vertical air discharge	S612828205		Standard		
Copper/copper condenser	Contact Johnson Controls				



Manufacturer reserves the rights to change specifications without prior notice.

# Dimensions and hydraulic connections

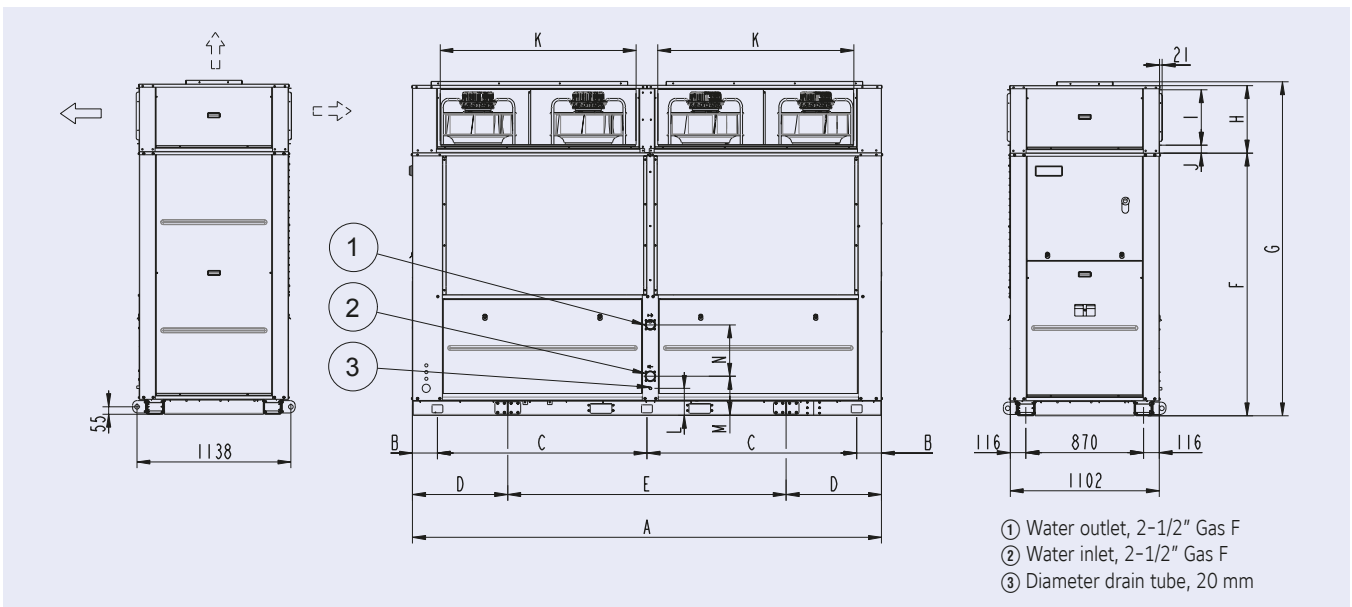
## YLHD 0040-0070 T/TP



All dimensions in mm. Drawings not a scale.

Unit	A	B	C	D	E	F	G	H	I	J	K	L	M	N
YLHD 0040 T/TP	1 794	2 658	897	148	1 155	95	1 155	30	389	37	1 200	138	2 479	23
YLHD 0070 T/TP	1 794	2 658	897	148	1 155	95	1 155	30	389	37	1 200	138	2 479	23

## YLHD 0100-0120 T/TP



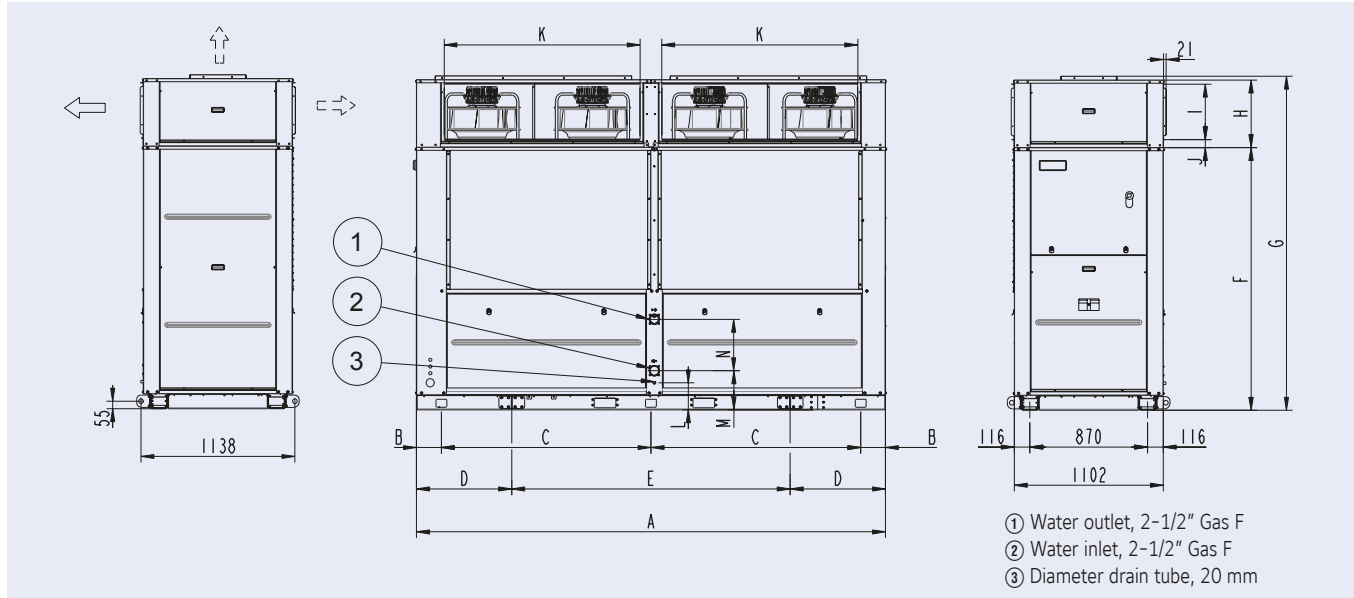
All dimensions in mm. Drawings not a scale.

Unit	A	B	C	D	E	F	G	H	I	J	K	L	M	N
YLHD 0100 T/TP	3 466	183	1 550	704	2 058	1 942	2 460	500	410	59	1 450	200	290	380
YLHD 0120 T/TP	3 416	183	1 525	604	2 208	1 942	2 460	500	418	55	1 438	200	290	380

# YLHD 0040 to 0150



## YLHD 0150 T/TP



All dimensions in mm. Drawings not a scale.

Unit	A	B	C	D	E	F	G	H	I	J	K	L	M	N
YLHD 0150 T/TP	3 768	254	1 630	605	2 558	1 992	2 480	470	386	55	1 617	410	210	458