

YLCD-YLHD

Air cooled chiller / heat pump

YLCD-YLHD 0025 to 0150

A complete range from 24 kW up to 145 kW



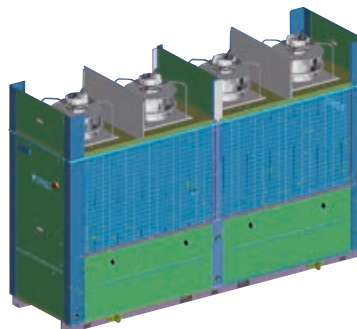
The new **YORK YLCD/YLHD** air-cooled chillers and heat pumps with powered fans are ideal solution for units to be installed in technical rooms or in louvered/hidden spaces on the roof.

Sharing the reliable and proven designed with YLCA/YLHA, these new units using R-410a 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

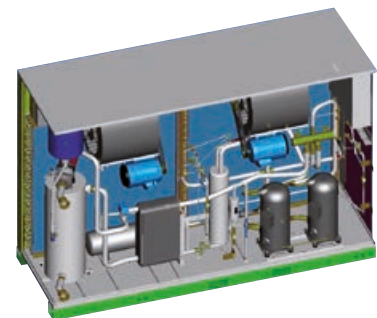
- Centrifugal or radial fans
- Scroll compressor
- Vertical and horizontal discharge
- Integrated Hydro kit (P versions)
- LAK (-18°C) standard (sizes 100-150)
- Flow switch standard



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

Options / Accessories

- Vertical Discharge kit (sizes 25 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 YLCA/YLHA product platform, for a compact and quick installation.



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Technical features

T Three phases supply C/P Hydro Pack H Heat pump

Models		YLCD / YLHD						
		0025 TC	0040 T-TP	0070 T-TP	0100 T-TP	0120 T-TP	0150 T-TP	
Performance	Cooling capacity c/o units (1)	kW	24.6	39.8	69.5	98.4	118.5	144.5
	Total Input Power (1)	kW	8.45	15.13	27.36	37.41	44.72	56.67
	EER (1)		2.91	2.63	2.54	2.63	2.65	2.55
	Cooling capacity h/p units (1)	kW	-	39.8	67.5	95.4	116.5	142.5
	Heating capacity h/p units (1)	kW	-	43.2	72.5	104.6	120.1	159.5
	Total Input Power cool/heat mode (1)	kW	8.14 / -	15.13 / 15.6	26.57 / 26.46	36.27 / 37.63	42.21 / 43.2	60.13 / 59.07
	EER / COP (1)		2.9 / -	2.63 / 2.77	2.54 / 2.74	2.63 / 2.78	2.76 / 2.78	2.37 / 2.7
	Capacity steps	%	100	50-100			25-50-75-100	
	Sound power level	dB(A)	81	83	86	86	86	87
	Compressor	Type	Scroll					
Quantity		1	2	2	4	4	4	
Air side heat exchanger	Fans quantity	1	2	2	4	4	4	
	Nominal air flow	m³/h	8 100	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	32	84	92	193	195	214
	Pump Type	Multistage horizontal pump						
	Nominal water flow	l/h	4 300	6 880	12 040	17 030	20 470	24 940
	Available pressure (1) (2)	kPa	208	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	1-1/4"	2"		2-1/2"		
Dimensions & Weight	Height	mm	1 526	1 794	1 794	2 460	2 460	2 480
	Width	mm	1 740	2 659	2 659	3 466	3 416	3 768
	Depth	mm	785	897	897	1 101	1 101	1 101
	Weight without pack / pack c/o	kg	- / 390	730 / 770	740 / 780	1 264 / 1 360	1 264 / 1 360	1 680 / 1 776
	Weight without pack / pack h/p	kg	- / 400	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					

YLCD: Cooling only units models. YLHD: Air to water heat pump models.

(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

Compatibility table / Codes

Models	-	0040 T	0070 T	0100 T	0120 T	0150 T
Cooling only unit YLCD	-	S668594083	S668597083	S668591083	S668591283	S668591583
Heat pump unit YLHD	-	S668574083	S668577083	S668571083	S668571283	S668571583
Models	0025 TC	0040 TP	0070 TP	0100 TP	0120 TP	0150 TP
Cooling only unit YLCD	S668592580	S668594080	S668597080	S668591080	S668591280	S668591580
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
Cooling only unit YLCD	-	S668000264	S668000268	S668000272	S668000276	S668000280
Heat pump unit YLHD	-	S668000266	S668000270	S668000274	S668000278	S668000282
Models	0025 TC	0040 TP	0070 TP	0100 TP	0120 TP	0150 TP
Cooling only unit YLCD	S668000262	S668000265	S668000269	S668000273	S668000277	S668000281
Heat pump unit YLHD	-	S668000267	S668000271	S668000275	S668000279	S668000283

Use this unit code when a factory fitted option is required

Options (Factory fitted)

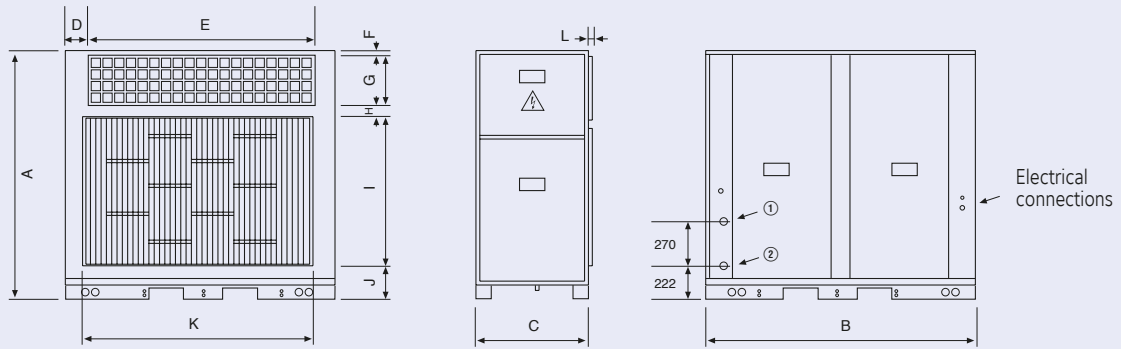
Low noise	NA	S613990550	NA	S613991050	S613991285	S613991584
Dual pump	NA	NA	NA	S613991040	S613991286	S613991585
Coil guard net	Standard			S613995093		S613995094
Low Ambient Kit	S613114085	S613111084		Standard		
Soft start	S606744692	S606744693		S606744694		
Vertical air discharge	S612828405	S612828205		Standard		
Copper/copper condenser	Contact Johnson Controls					



Manufacturer reserves the rights to change specifications without prior notice.

Dimensions and hydraulic connections

YLCD 0025 TC

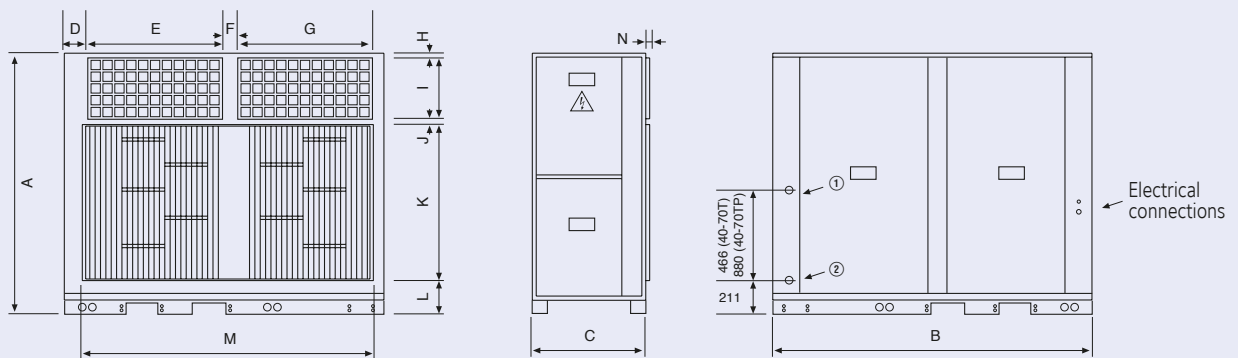


- ① Water outlet, 1-1/4" Gas F
- ② Water inlet, 1-1/4" Gas F

All dimensions in mm. Drawings not a scale.

Unit	A	B	C	D	E	F	G	H	I	J	K	L
YLCD 0025 TC	1 526	1 740	785	151	1436	30	324	37	994	141	1476	24

YLCD / YLHD 0040-0070 T/TP



- ① Water outlet, 2" Gas F
- ② Water inlet, 2" Gas F

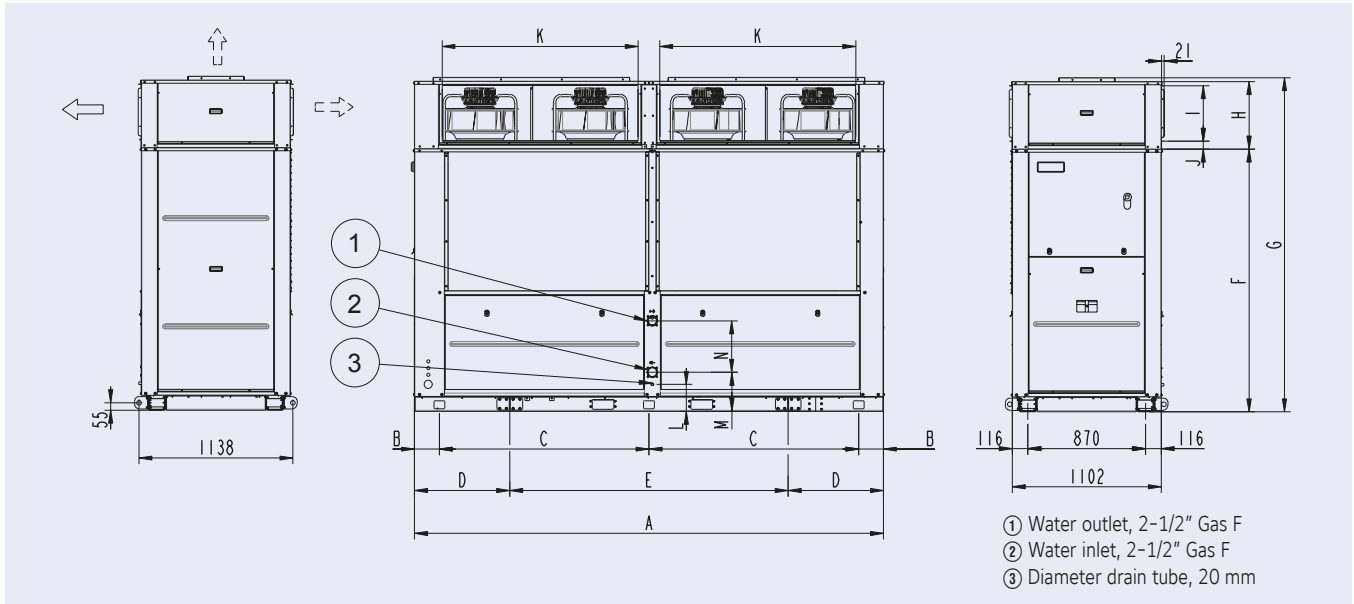
All dimensions in mm. Drawings not a scale.

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

YLCD-YLHD 0025 to 0150



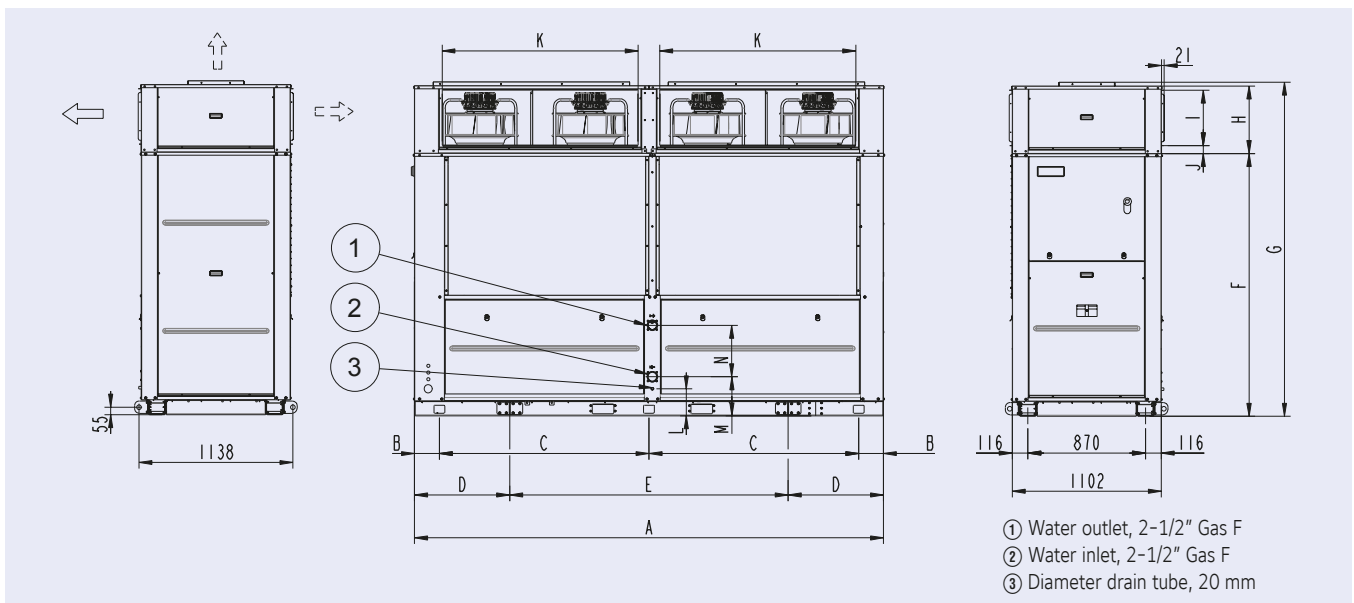
YLCD / YLHD 0100-0120 T/TP



All dimensions in mm. Drawings not a scale.

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

YLCD / 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
YLCD/YLHD 0150 T/TP	3 768	254	1 630	605	2 558	1 992	2 480	470	386	55	1 617	410	210	458