

Water Systems

- Chiller and Heat Pump
- Indoor Water Terminals

new

Ecofrio 5 - 40 (R410A)

New Water Cassettes

New Fancoil Units

Features

YCSA 50 to 100

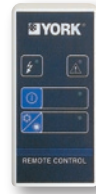


- 2 Scroll Compressors
- LWT & RWT Control
- Hydro Pack standard
- Buffer Tank
- Plate heat exchanger
- FSC standard (low ambient operation -10°C)
- Condenser protection grille

YCSA 120 to 150



- 4 Scroll compressors
- High efficiency at full and partial load
- Hydro Pack standard
- LWT & RWT control
- Standard low ambient operation [-18°C]
- Reduced noise levels
- 1/4 turn lock for easy access



Options / Accessories

- Unit without pack
- Anti corrosion condenser fins
- Pressostatic LAK (-18°C) (cooling only units)
- B.M.S. Communication
- Remote control
- Remote terminal
- Water filter (unit without pack)
- Low noise version
- Dual pump version

Air cooled chiller / Air to water heat pump

YCSA 50 to 150

A complete range from 5 kW up to 156 kW



Models YCSA 05 to YCSA 40 : see page 56 / Indoor water terminals : see page 84

YCSA 50 to 150

49 to 156 kW



Technical features

T Three phases supply P Pack H Heat pump

			YCSA / YCSA-H					
			50 T-TP	60 T-TP	80 T-TP	100 T-TP	120 T-TP	150 T-TP
Performance	Cooling capacity cooling only units (1)	kW	49.2	61.2	78.6	96	119	156
	Total Input Power (1)	kW	17.9	23.8	27.4	38.4	43	50
	Cooling capacity heat pump units (1)	kW	45.4	65.3	74.3	90	114	145
	Heating capacity heat pump units (1)	kW	54.4	62.5	81.2	101	119.6	150
	Total Input Power cooling/heating mode (1)	kW	18.7 / 19.7	22.2 / 23	28 / 29.6	38.3 / 36.5	43.3 / 39.6	50
	Capacity steps	%	0-50-100%			0-25-50-75-100%		
	Sound power level	dB(A)	84	85	88	89	86	88
	Sound pressure level at 10 m	dB(A)	56	57	60	61	58	60
	Sound power level Low Noise version	dB(A)	78	79	80	83	82	84
Sound pressure level Low Noise version at 10 m	dB(A)	50	51	52	55	54	56	
Compressor	Type	Hermetic Scroll (R407C)					Hermetic Scroll (R410A)	
	Quantity	2					4	
Air side heat exchanger	Fans quantity	2		3		4		
	Working Ambient temp. cooling / heating mode (4)	(-18°C) -10°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 (2)	Litres	179	181	274	278	170	179
	Pump Type	Multistage horizontal pumps						
	Available pressure (1) (2)	kPa	190	240	165	241	202	185
	Pressure drop (1) (3)	kPa	30	42	59	33	32	29
	Working range water leaving temperature cooling/heating (5)	(-5°C) 6°C ~ 15°C / 30°C ~ 50°C						
	Water connections	inch	2"			2 1/2"		
Dimensions & Weight	H / W / D	mm	1398 / 1004 / 2103		1400 / 1108 / 2943	1582 / 1140 / 3336	2190 / 1101 / 3416	2263 / 1101 / 3770
	Weight without pack / pack cooling only	kg	568 / 624	650 / 706	798 / 870	964 / 1 030	1 190 / 1 250	1 585 / 1 645
	Weight without pack / pack heat pumps	kg	580 / 636	664 / 720	824 / 890	1 000 / 1 065	1 220 / 1 280	1 615 / 1 675
Electrical features	Voltage / Phases / Frequency	V/ph/hz	400 / 3 / 50 + N + E					
	Running current (max) (2)	A	46.4	57.7	71	91.3	103	129

(1) net values at Eurovent nominal conditions (2) version P with hydro kit (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

Model	YCSA 50 TP	YCSA 60 TP	YCSA 80 TP	YCSA 100 TP	YCSA 120 TP	YCSA 150 TP
Cooling only unit (Pack included)	668524682	668526082	668528082	668521082	668551152	668551502
Heat pump unit (Pack included)	668624682	668626082	668628082	668621082	668651152	668651502

Options (Factory fitted)

Model	YCSA 50 T	YCSA 60 T	YCSA 80 T	YCSA 100 T	YCSA 120 T	YCSA 150 T
Cooling only unit (without Pack)	668524680	668526080	668528080	668521080	668551150	668551500
Heat pump unit (without Pack)	668624680	668626080	668628080	668621080	668651150	668651500
Anti-corrosion coated condenser fins c/o	611084646	611086060	611088080	611081010	611081210	611081510
Anti-corrosion coated condenser fins h/p	611085050	611086061	611088081	611081011	611081211	611081511
Copper/copper condenser c/o	611064646	611066060	611068080	611061010	611061210	611061510
Copper/copper condenser h/p	611054646	611056060	611058080	611051010	611051210	611051510
LAK -18°C for cooling only unit	61312081			STANDARD		
Low Noise version	613996086		613998081	613991084	613991285	613991584
Dual pumps	NA	NA	613990881	613991085	613991286	613991585

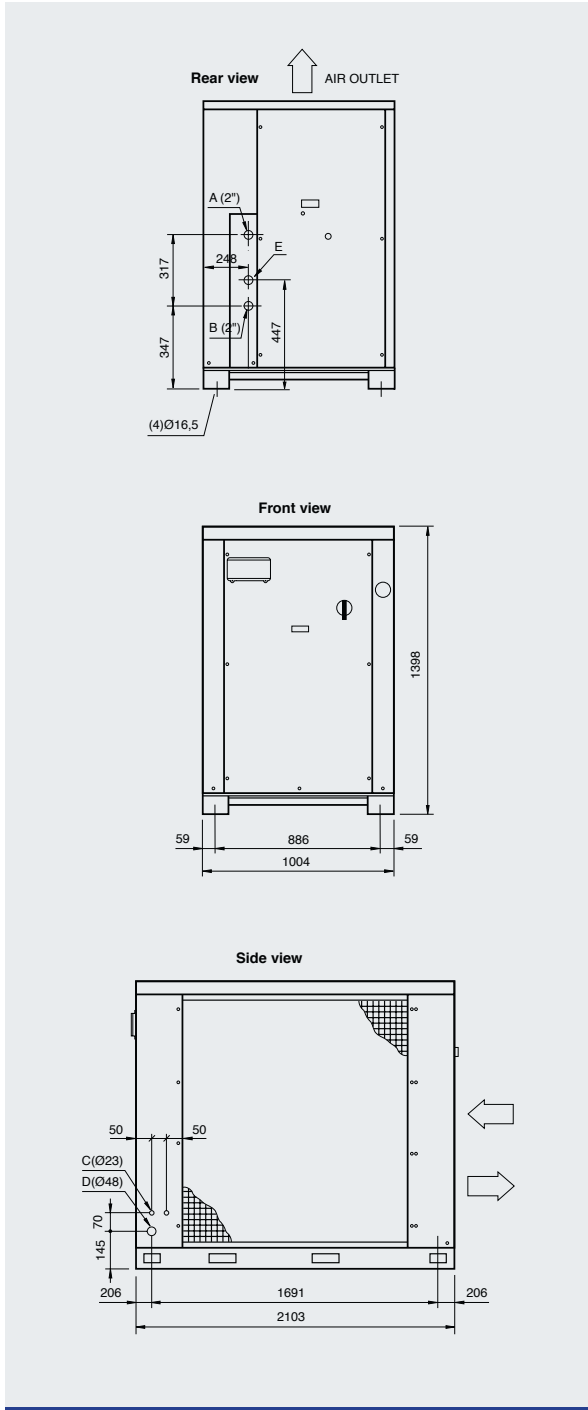
Accessories (Supplied loose)

AVM mounting	613026080	613028180	613021580
Mechanical flow switch	611992021		
Water Filter *	611300170		611300190
Remote control	613802011		
Remote terminal	613802231		613802241
B.M.S. Communication	613802041		613802051

* included with unit version "P" only for unit without pack. Filter size: 2" for YCSA 50-60-80 and 2 1/2" for YCSA 100-120-150.

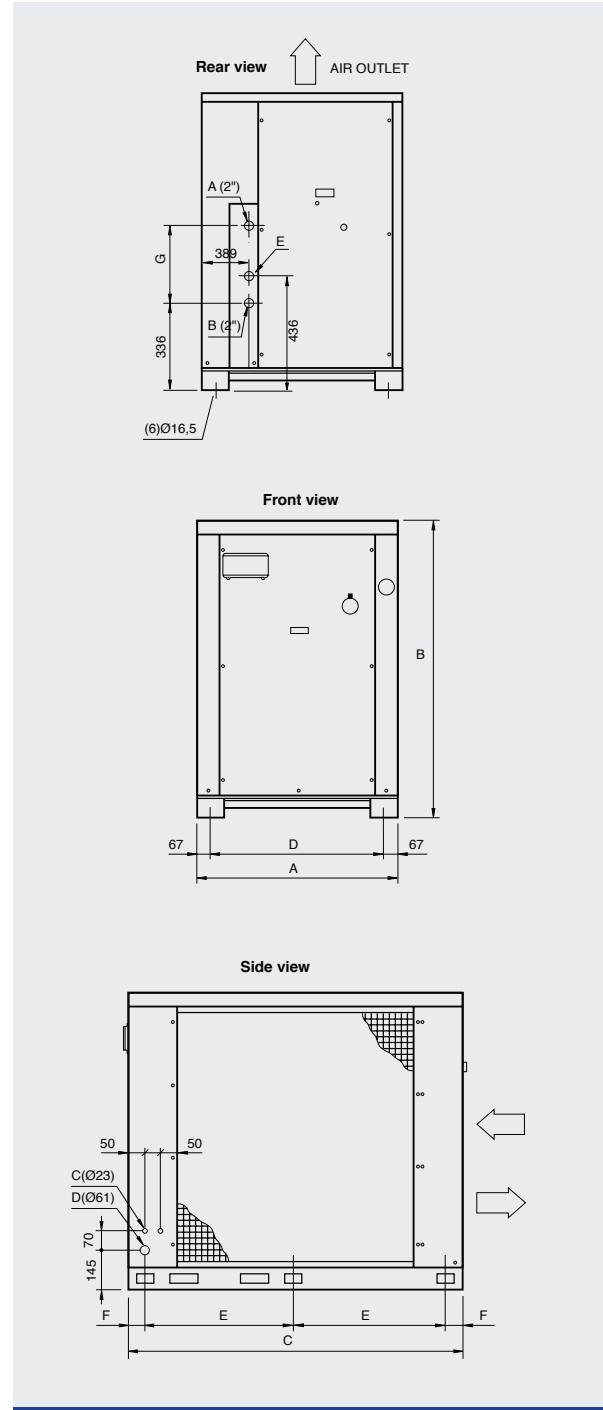
Dimensions, hydraulic connections and space requirements

YCSA/YCSA-H 50 and 60 T TP



All dimensions in mm. Drawings not a scale.

YCSA/YCSA-H 80 and 100 T TP



All dimensions in mm. Drawings not a scale.

	A	B	C	D	E	F	G
YCSA 80	1 108	1 400	2 943	970	1 265	207	317
YCSA 100	1 140	1 582	3 336	1 002	1 318	350	327

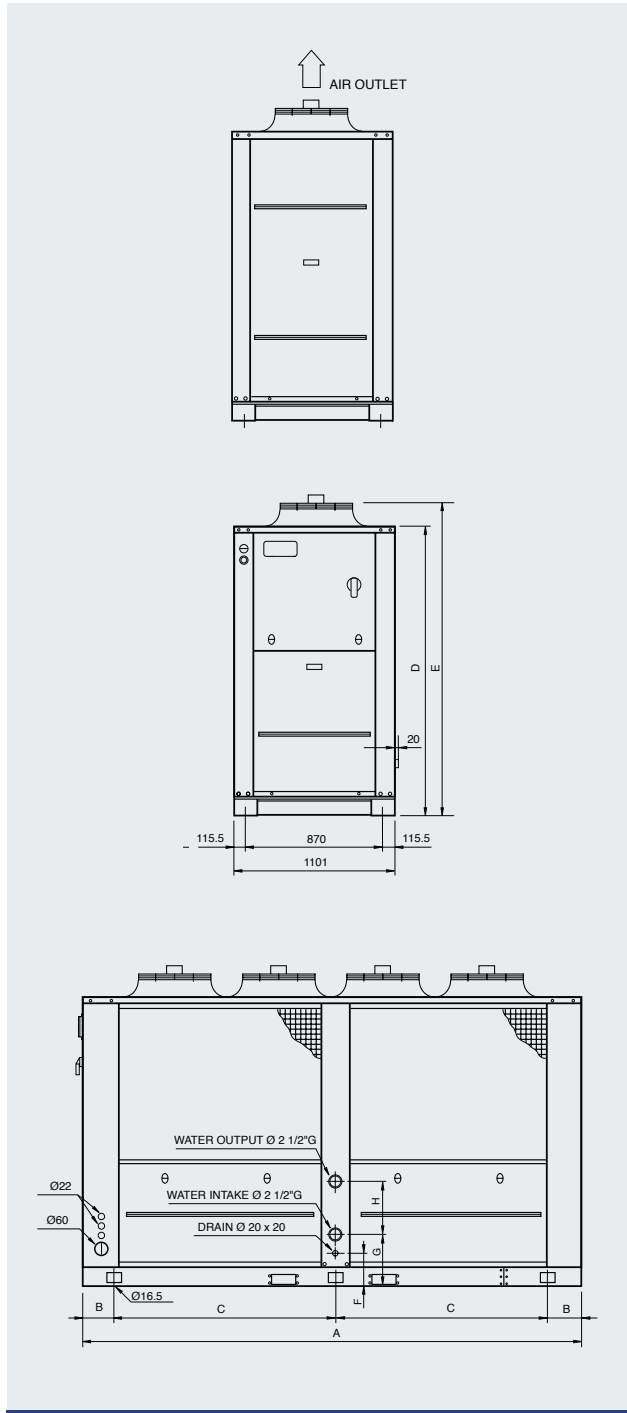
- A- Water intake Ø 2" Gas F.
- B- Water outlet Ø 2" Gas F.
- C- Auxiliary lines
- D- Electrical power supply
- E- Water refilling Ø 3/8" Gas F.

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YCSA 50 to 150



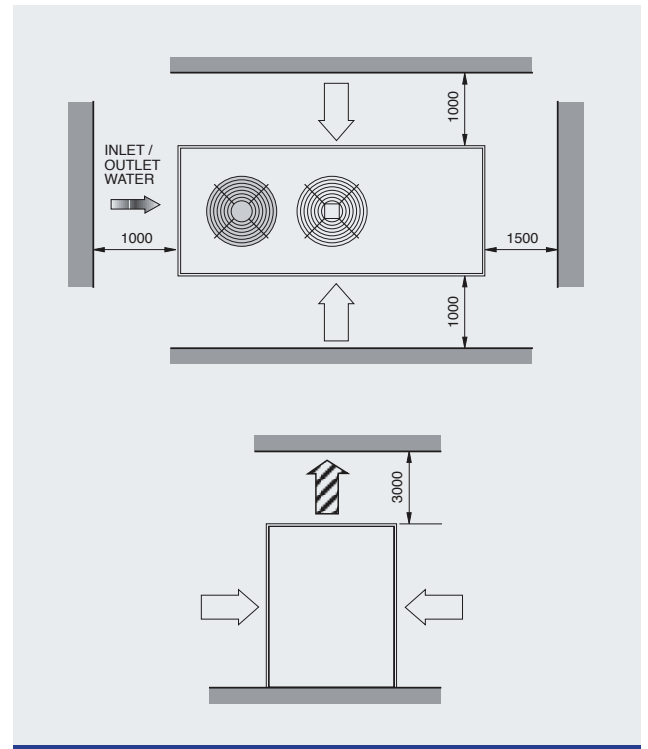
YCSA/YCSA-H 120 and 150 T TP



All dimensions in mm. Drawings not a scale.

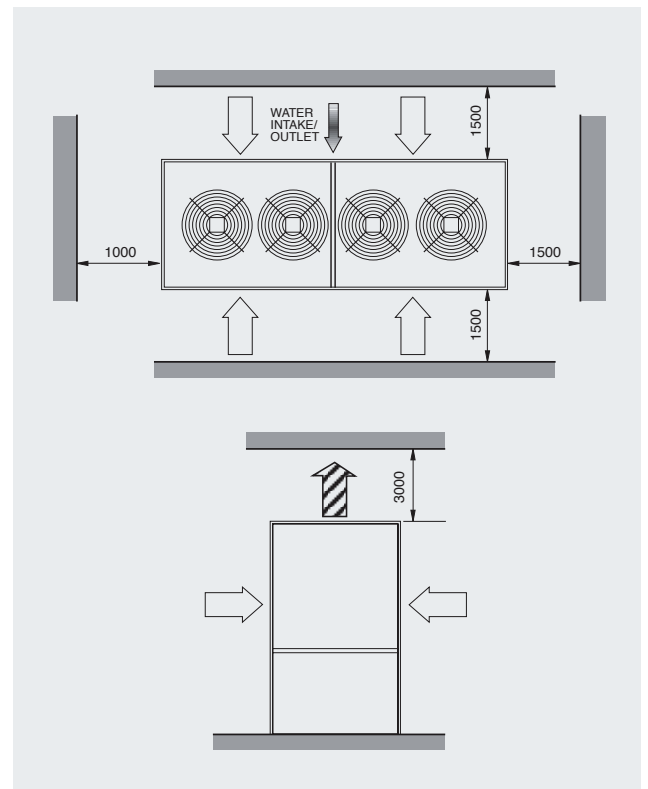
	A	B	C	D	E	F	G	H
YCSA 120	3 416	183	1 525	1 942	2 190	199	289	380
YCSA 150	3 770	255	1 630	1 993	2 263	145	211	458

Model YCSA/H 50-60-80-100



All dimensions in mm. Drawings not a scale.

Model YCSA/YCSA-H 120 and 150



All dimensions in mm. Drawings not a scale.