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YORK®
INSTALL CONFIDENCE

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Johnson Controls

YORK®
INSTALL CONFIDENCE

WATER-COOLED SCREW CHILLER

YEWS (High Efficiency)

Cooling capacity: 100-415TR, 50Hz

Johnson Controls

In order to meet continuously changing and increasing requirements, Johnson Controls introduces the brand new high efficient HFC-134a water-cooled screw chiller YEWS. Compared to typical water-cooled screw chillers, YEWS high efficiency series can meet customers' efficiency requirements better and continuously reduces the carbon dioxide emission. YEWS operates additionally very reliable and its flexible configuration combined with a compact footprint can meet a large number of application and project requests.

Its semi-hermetic twin-screw compressor ensures high energy efficiency and long service life. The high efficiency hybrid falling film evaporator helps to increase the COP level to an industry leading level. Equipped with advanced smart control logic, the system is capable to monitor key variables and adjusts the chiller operation precisely. The microprocessor can also be connected to any Building Automation System via MODBUS Protocol.

Chiller Features

Efficiency

All YEWS high efficiency models are energy saving products with proven high performance.

- The industry leading design concept combined with latest technology innovations contribute to the high efficient operation of the chiller.
- The patented hybrid falling film evaporator assures excellent heat exchange efficiency.
- The advanced refrigerant and oil system design upgrades the chiller efficiency even further.
- The smart control logic assures efficient operation at each load point.

Flexibility

YEWS high efficiency series is suitable for a large number of applications: not only comfort cooling but also ice thermal storage, industry cooling and heat pump.

- The special compressor design can meet high delta pressure condition.
- The real time detecting parameter and system protection let the chiller to work stable even under extreme conditions.

Reliability

Johnson Control's long term experience and continuous improvement for compressor and chiller design results in highest product reliability.

- The internal oil system provides adequate protect to the unit's compressor.
- The chiller's smart control software allows smooth loading and operation.

Sustainability

YEWS reduces indirect & direct carbon dioxide emission and advocates sustainable development.

- The high efficiency of the YEWS chiller offers substantial reduction in power consumption and the facility's CO_2 footprint.
- The patented hybrid falling film evaporator operates with less refrigerant charge.

Mechanical Specifications

The YEWS model is completely assembled with all interconnecting refrigerant piping and internal wiring, ready for field installation. The unit is pressure tested, evacuated, and fully factory charged oil in the refrigerant circuit. After assembly, a run test is performed with water flowing through the cooler to ensure that each refrigerant circuit operates correctly. The chiller conforms to GB25131 Safety requirements for water chillers (heat pumps) using the vapor compression cycle.

Compressor

Highly efficient and precisely manufactured direct drive, semi-hermetic oil-injected compressor for highest efficiency. 25%-100% step-less capacity control for highest part-load efficiency. Compressor design working pressure of 2.1MPa. The compressor housing is made of cast iron and provides optimal space for two ground-finishing screw rotors. The rotors are manufactured from forged steel with very small clearance but no direct contact. The design ensures that the rotors keep in the right positioned, reduces wear, prevents leak and prolongs life span. The unique oil separation system design assures a constant supply of oil to the bearings at all times. An automatic control valve ensures the compressor starts at the minimum motor load and an internal discharge check valve prevents a rotor backspin upon shutdown.

Compressor Motor Protection - The microprocessor motor protection provides over current protection to ensure that the motor is not damaged due to voltage, excess refrigerant or other problems that could cause excessive motor current.

The microprocessor also provides low motor current protection when it senses a motor current of less than 10% FLA. A motor protector module provides over heat protection.

Capacity Control - The compressor slide valve modulates the capacity from 100% to 25% of full load for one compressor units and 100% to 12.5% for two compressor units. The slide valve will be adjusted according to the system's load requirement.

Refrigerant System

Liquid line components include a manual shut-off valve, refrigerant recovery valve, moisture sight glass and orifice plate. Suction lines are covered with close-cell insulation. The orifice of the refrigerant system automatically adjusts to the continuously changing pressure condition and meters refrigerant flow to the evaporator accordingly.

The condenser shell is capable of storing the entire system refrigerant charge during serve, when the unit is equipped with the optional condenser isolation valve.

The unit is furthermore equipped with a suction strainer to prevent any particles enter the compressor along with the suction gas.

Oil System - The high efficient oil separation system provides adequate protect to the unit's compressor. It is equipped with an oil heater in oil sump to avoid a refrigerant and oil mix when the chiller is not operating. During the chiller operation, the system operation pressure automatically transfers the oil in the oil sump back to the compressor. An oil filter is equipped to each compressor to prevent any particles entering the compressor.

Heat Exchanger

Condenser - The refrigerant circuit water-cooler condenser is a cleanable shell and tube with seamless external finned 19mm OD copper tubes rolled into tube plates. The design working pressure on the water side is 1MPa. The factory offers by standard groove type water pipe connections. Alternatively HG20615 flange type connections can be offered. The refrigerant side has a safety valve with trip pressure of 2.07MPa. The condenser can be manufactured and tested according to ASME or China National Standard GB151.

Evaporator - The evaporator utilizes a hybrid falling film design. It contains a balance of flooded and falling film technology to optimize efficiency, minimize refrigerant charge, and maintain reliable control. A specifically designed spray distributor provides uniform distribution of refrigerant over the entire length to yield optimum heat transfer. The hybrid falling film evaporator design has suction baffles around the sides and above the falling film section to prevent liquid refrigerant carryover into the compressor. A sight glass of 40mm diameter is on the shell side for refrigerant level observation. The design working pressure is 2.1MPa for shell, 1.0MPa for tube side. The refrigerant side has a safety valve with trip pressure of 2.07MPa. The refrigerant side is manufactured and tested according to China National Standard GB151.

The evaporator shell is covered with 19mm closed-cell insulation. The factory offers by standard groove type water pipe connections. Alternatively HG20615 flange type connections can be offered. During the installation the contractor should furnish the insulation layer.

Compact Water Box - A removable Compact Water Box is fabricated from steel pipe with 1.0MPa design working pressure. Steel diaphragms are welded inside the water box per the number of the flow pass. The factory offers by standard groove type water pipe connections. Alternatively HG20615 flange type connections can be offered. 20mm vent and drain pipes are provided on each evaporator and condenser water box.

Codes & Standards

YEWS meets the requirements according to:

- AHRI 550/590 and 551/591
- GB25131-Safety requirements for water chillers (heat pumps) using the vapor compression cycle
- GB150 Pressure vessel
- GB151 Tubular heat exchangers
- GB/T18430.1-Water chilling (heat pump) packages using the vapor compression cycle – part 1: Water chilling (heat pump) packages for industrial & commercial and similar application

AHRI Certification Program - The performance of YORK YEWS has been certified to the Air Conditioning, Heating and Refrigerant Institute (AHRI) as complying with the certification sections of the latest issue of AHRI Standards 550/590 and 551/591. Under this Certification Program, chillers are regularly tested in strict compliance with this Standard. This provides an independent, third party verification of chiller performance.

Electronics

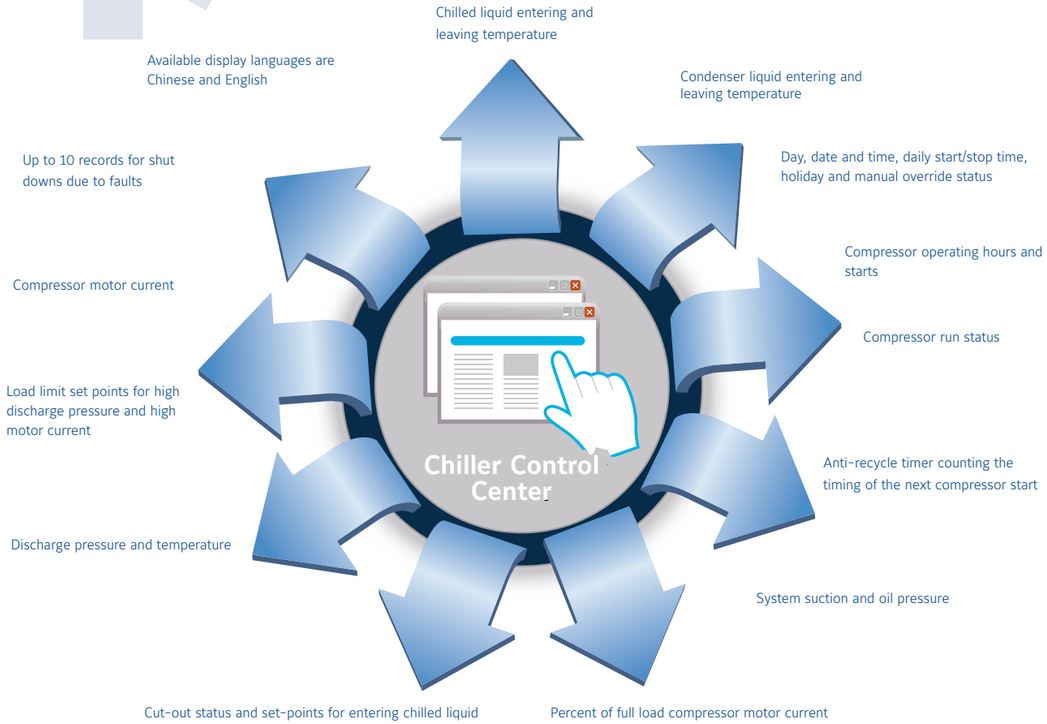
Starter and Control Panel - The unit comes equipped with unit mounted wye-delta starter and control panel. All wiring is completed and tested by the factory but does not include any field installation.

The painted galvanized steel panel enclosure is designed and meets the need of IP22 protection. The control panel is divided into a power section and a control section. Power and control sections have separated hinged, latched and gasket sealed doors. The power panel is a single power connection. Each power compartment contains compressor starting contractors, control circuit serving compressor capacity control, compressor contractor coils and compressor motor overloads. The compressor motor overloads contain current transformers as an input to the microprocessor. Compressor power supply protection modular protects high input voltage, low input voltage, phase reversal and lack of phase. The control section contains key pad , HMI and microprocessor board.

Microprocessor and display - The user can program and modify set points as well as general using the keypad. Additional changes such as cut-outs for low suction pressure, high discharge pressure, high oil temperature or high discharge pressure unloading set points and compressor motor current percent limit require a password.

Through standard RS485 interface, the microprocessor can be connected to any Building Management System via MODBUS Protocol.

The microprocessor system is allowed to monitor and control many key variables and can display the following items at its 120 character and 8-line big LCD display in metric unit (℃ and kPa):



Chiller Standard configuration

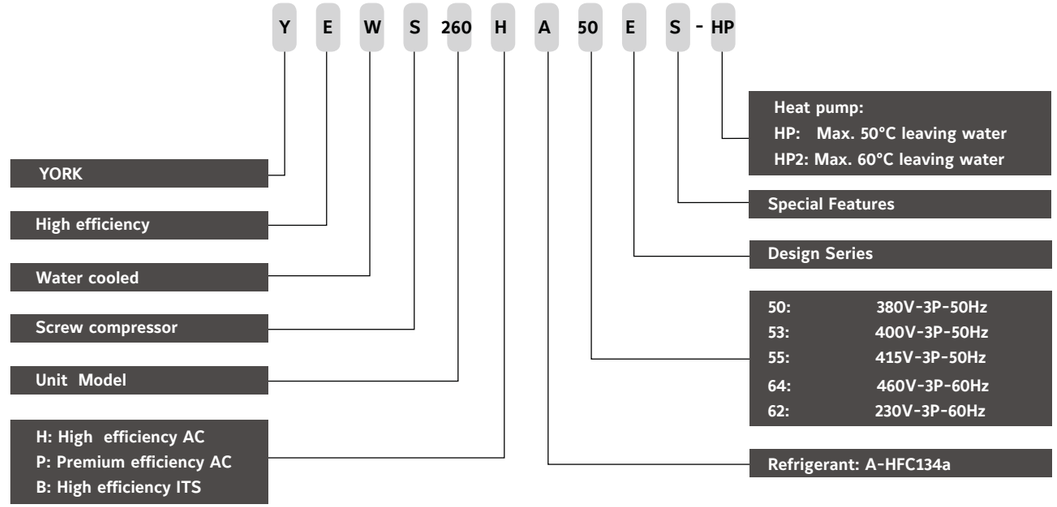
Chiller Insulation - The unit comes factory fitted with a 19mm thick flexible closed-cell plastic anti-sweat insulation attached to the evaporator shell, tube sheets, suction connection, and (if necessary) to the auxiliary tubing. The 19m thick insulation can prevent sweating in environments with relative humidity up to 75% and dry bulb temperatures ranging from 10 to 32 ℃.

Flow switch - The design working pressure of paddle type flow switch is 1.03MPa (Gauge). It is suitable for chilled liquid and condenser liquidpipes. The power supply of flow switch is 125 V.A.C., 1 Phase, 50 Hz.

Painting - The chiller surface is painted with anticorrosion and durable caribbean blue epoxy primer and propionic acid one-component top coat.

Shipping - Production covers are provided for the control center and controller on the unit. Plastic caps or fabricscover plate are provided for all water pipe connectors.

Nomenclature



Note: For the installation site where the altitude of is more than 2000 meters, some parts need be specially designed. Please contact local offices for details.

Options

25mm Spring Isolators

The unit comes by standard with four lose 19mm thick anti-vibration neoprene pads, for field installation. When the unit is installed on the floor, Spring Isolators are recommended to replace the standard neoprene pads. 4 level adjustable Spring Isolators with non-slip mat will be delivered lose and can be conveniently mounted under the tube sheet.

Left/Right Pipe connection

Left or Right Pipe connection is the perfect option for small machine room or retrofit projects. It allows to choose the pipe connection either from the right or from the left side.

Compressor Sound Attenuator

This option provides higher comfort to the user by lowering the sound emission of the chiller.

Thicker Evaporator Insulation (38mm)

The 38mm thicker insulation is an option in case of relative humidity up to 90% and dry bulb temperatures ranging from 10 to 32 ℃. It is especially suitable for ITS, low temperature or high humidity areas and helps to avoid the sweat on thesurface of the unit.

Refrigerant isolation valve and refrigerant storage

The condenser shell will be capable of storing the entire system refrigerant charge during servicing if the unit is equipped with the optional isolation valve.

Heat Pump

The YEWS can be applied in water-source or ground-source heat pump system to meet the customer need of cooling in summer and heating in winter by one unit and in a very efficient way. The maximum hot water temperature achieves 60°C.

Technical Data

Standard Chiller Technical Data

Model	Cooling Capacity		Input Power kW	COP	FLA	Full load Consultation Index kW/TR	Evaporator				Condenser			
	TR	kW					Pass	Flow Rate l/s	Piping Dimension (mm)	Water Pressure Drop kPa	Pass	Flow Rate l/s	Piping Dimension (mm)	Water Pressure Drop kPa
YEWS100HA50E	101.4	356.6	67.82	5.258	116	0.6689	3	15.30	100	44.8	2	19.75	100	25.1
YEWS100PA50E	102.5	360.5	66.62	5.411	115	0.6499	3	15.47	100	46.0	2	19.89	100	26.5
YEWS130HA50E	127.0	446.6	83.51	5.350	141	0.6573	2	19.17	125	36.7	2	24.68	100	47.2
YEWS130PA50E	127.0	446.6	82.24	5.433	138	0.6473	2	19.17	125	36.7	2	24.63	100	62.4
YEWS170HA50E	164.8	579.6	105.8	5.476	180	0.6422	2	24.88	125	40.6	2	31.90	125	59.7
YEWS170PA50E	165.6	582.4	101.9	5.715	174	0.6154	2	25.00	125	40.9	2	31.84	125	43.6
YEWS200HA50E	199.9	703.0	129.0	5.450	219	0.6453	2	30.17	150	44.8	2	38.71	150	48.7
YEWS200PA50E	200.6	705.5	124.2	5.682	211	0.6189	2	30.28	150	45.7	2	38.59	150	35.5
YEWS215PA50E	210.4	739.9	122.8	6.025	209	0.5837	2	31.75	150	36.4	2	40.13	150	49.6
YEWS260HA50E	256.7	902.8	156.6	5.765	132/132	0.6100	2	38.74	150	73.5	2	49.26	150	75.8
YEWS300HA50E	294.0	1034	180.0	5.745	174/131	0.6122	2	44.37	150	78.5	2	54.25	200	78.8
YEWS340HA50E	337.5	1187	199.9	5.940	170/170	0.5921	2	50.94	150	75.5	2	64.54	200	79.4
YEWS375HA50E	378.4	1331	223.0	5.968	211/168	0.5893	2	57.11	200	75.8	2	72.36	200	81.5
YEWS415HA50E	418.7	1473	248.0	5.938	211/211	0.5923	2	63.22	200	79.4	2	80.06	200	78.8

Note : 1. Chilled liquid entering temperature 54.00 °F, leaving temperature 44.00 °F, fouling factor 0.000100 h·ft²·°F/Btu
2. Condenser liquid entering temperature 85.00 °F, leaving temperature 94.30 °F, fouling factor 0.000250 h·ft²·°F/Btu
3. The above data is based on Johnson Control's selection software: AECworks 6.30. Please refer to the latest version of the computer selection for specific projects.

ITS Dual Duty Performance Data

Model	Condition	Cooling Capacity		Input Power kW	COP	FLA	Full load Consultation Index kW/TR	Evaporator				Condenser			
		TR	kW					Pass	Flow Rate l/s	Piping Dimension mm	Water Pressure Drop kPa	Pass	Flow Rate l/s	Piping Dimension mm	Water Pressure Drop kPa
YEWS100BA50E	AC	100.1	352.0	67.94	5.181	116	0.6788	3	18.11	100	56.0	2	20.20	100	26.1
	ITS	62.07	218.3	62.36	3.501	106	1.0045				51.5				26.2
YEWS130BA50E	AC	125.1	440.0	84.18	5.227	141	0.6728	2	22.63	125	62.0	2	25.21	100	48.9
	ITS	77.31	271.9	77.26	3.520	129	0.9991				56.9				49.0
YEWS170BA50E	AC	162.4	571.0	106.7	5.349	182	0.6575	2	29.37	125	65.0	2	32.59	125	61.9
	ITS	100.3	352.6	97.87	3.603	167	0.9761				59.7				62.1
YEWS200BA50E	AC	197.1	693.3	130.2	5.325	221	0.6604	2	35.66	150	63.8	2	39.58	150	50.6
	ITS	121.6	427.8	119.3	3.585	202	0.9810				58.6				50.8
YEWS215BA50E	AC	209.0	734.9	123.9	5.930	211	0.5931	2	37.80	150	51.7	2	41.28	150	52.1
	ITS	126.5	445.0	114.1	3.901	194	0.9015				53.0				52.3
YEWS260BA50E	AC	254.7	895.8	158.0	5.668	133/133	0.6205	2	46.08	150	98.0	2	50.64	150	79.5
	ITS	156.3	549.8	145.3	3.784	122/122	0.9294				89.6				79.8
YEWS300BA50E	AC	291.7	1026	182.0	5.637	175/133	0.6239	2	52.77	150	97.9	2	58.10	200	82.5
	ITS	178.9	629.2	166.0	3.791	160/121	0.9277				89.5				82.8
YEWS340BA50E	AC	335.2	1179	201.8	5.842	172/172	0.6020	2	60.64	150	109	2	66.42	200	83.1
	ITS	204.5	719.2	186.0	3.866	158/158	0.9097				99.3				83.5
YEWS375BA50E	AC	375.9	1322	225.0	5.875	212/170	0.5986	2	68.00	200	104	2	74.46	200	85.4
	ITS	230.5	810.6	207.0	3.916	195/157	0.8981				95.5				85.8
YEWS415BA50E	AC	415.7	1462	250.4	5.840	210/210	0.6022	2	75.23	200	107	2	82.40	200	82.8
	ITS	252.4	887.5	230.6	3.848	196/196	0.9139				97.5				83.2

Note : 1. Air conditioning: 7/12℃, 30/35℃ ; Ice making: Chilled liquid leaving temperature -5.6℃, Condenser liquid entering temperature 30 ℃.
2. Evaporator fouling factor factor 0.018[m²·℃/kW], condenser fouling factor factor 0.044[m²·℃/kW].
3. The above data is based on 25% ethylene glycol as evaporator liquid.
4. The above data is based on Johnson Controls' selection software: AECworks 6.30. Please refer to the latest version of the computer selection for specific projects.

Heat Pump Performance Data

Model	Cooling Mode										Heating Mode					
	Cooling Capacity		Input Power kW	COP	Evaporator			Condenser			Heating Capacity kW	Input Power kW	Evaporator		Condenser	
	TR	kW		kW/kW	Flow Rate l/s	Pressure Drop kPa	Piping Dimension mm	Flow Rate l/s	Pressure Drop kPa	Piping Dimension mm			Flow Rate l/s	Pressure Drop kPa	Flow Rate l/s	Pressure Drop kPa
Leaving water temperature 45°C performance data																
YEWS100HA50E-HP	109.4	385.0	57.90	6.649	18.39	62.0	100	11.02	9.12	100	404.0	85.37	11.02	24.5	18.39	21.2
YEWS130HA50E-HP	135.5	476.6	72.76	6.550	22.77	49.8	125	13.64	17.0	100	500.8	104.8	13.64	19.7	22.77	39.2
YEWS170HA50E-HP	178.5	628.0	91.18	6.888	30.00	56.9	125	17.97	22.6	125	644.0	136.0	17.97	22.4	30.00	51.2
YEWS210HA50E-HP	216.6	762.0	114.3	6.666	36.41	62.8	150	21.80	18.5	150	793.0	163.8	21.80	24.8	36.41	41.8
YEWS260HA50E-HP	283.7	998.0	144.1	6.925	47.68	106	150	28.55	30.5	150	993.0	207.2	28.55	42.2	47.68	68.3
YEWS300HA50E-HP	321.8	1132	160.0	7.075	54.08	112	150	32.39	31.3	200	1122	234.0	32.39	44.1	54.08	69.3
YEWS340HA50E-HP	365.0	1284	179.0	7.173	61.35	105	150	36.74	31.1	200	1250	260.8	36.74	41.5	61.35	68.9
YEWS375HA50E-HP	406.8	1431	202.0	7.084	68.37	104	200	40.94	31.5	200	1413	295.0	40.94	41.5	68.37	70.1
YEWS415HA50E-HP	461.1	1622	224.5	7.223	77.50	114	200	46.41	31.8	200	1584	327.2	46.41	45.2	77.50	71.0
Leaving water temperature 55°C performance data																
YEWS100HA50E-HP2	109.2	384.0	61.81	6.212	18.35	61.8	100	10.99	9.08	100	386.0	98.23	10.99	24.3	18.35	20.5
YEWS130HA50E-HP2	135.6	477.0	78.88	6.047	22.79	49.9	125	13.65	17.0	100	474.0	122.0	13.65	19.7	22.79	37.9
YEWS170HA50E-HP2	177.6	624.8	99.30	6.292	29.85	56.4	125	17.88	22.4	125	619.0	158.0	17.88	22.2	29.85	48.9
YEWS210HA50E-HP2	211.8	745.0	121.0	6.157	35.59	60.3	150	21.32	17.8	150	763.0	195.6	21.32	23.8	35.59	38.6
YEWS260HA50E-HP2	280.8	988.0	152.1	6.496	47.20	104	150	28.27	29.9	150	950.0	240.2	28.27	41.3	47.20	64.5
YEWS300HA50E-HP2	321.8	1132	170.0	6.659	54.08	112	150	32.39	31.3	200	1073	271.0	32.39	44.0	54.08	66.5
YEWS340HA50E-HP2	363.6	1279	189.8	6.739	61.11	105	150	36.59	30.9	200	1203	304.3	36.59	41.1	61.11	65.7
YEWS375HA50E-HP2	406.8	1431	214.0	6.687	68.37	104	200	40.94	31.5	200	1343	332.0	40.94	41.4	68.37	67.3
YEWS415HA50E-HP2	461.1	1622	236.8	6.849	77.50	114	200	46.41	31.8	200	1505	377.3	46.41	45.1	77.50	68.1

Note: 1. Cooling mode: Evaporator entering water temperature 7°C, flow rate 0.172[m³/(h·kW)]; Condenser entering water temperature 18°C, flow rate 0.103[m³/(h·kW)].
2. Heating mode: Evaporator entering water temperature 15°C, flow rate is the flow rate of condenser in cooling mode; flow rate of condenser is the flow rate of evaporator in cooling mode.
3. Heat exchangers are 2-pass flow except 3-pass flow of YEWS100 evaporator.
4. The water source and water quality must comply with the application requirement and standard.
5. Max. condenser leaving water temperature in heating mode is 60°C.
6. The above data is based on Johnson Control's selection software: AECworks 6.30. Please refer to the latest version of the computer selection for specific projects.

Physical Data

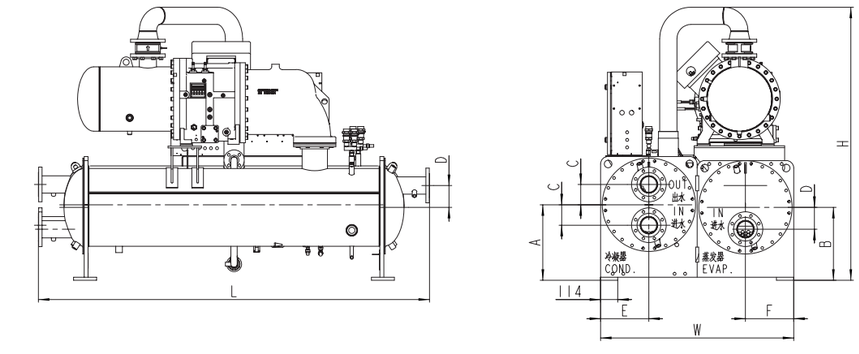
Model	Refrigerant circuit No	Refrigerant Charge (Kg)	Lubrication oil Charge (L)	Compressors Qty	Unit Capacity Control %	Water Volume per Evaporator L	Water Volume per Condenser L	Weight	
								Shipping Weight Kg	Operating Weight Kg
YEWS100	1	100	17	1	25~100	120	120	2800	3200
YEWS130	1	120	25	1	25~100	200	210	3450	3950
YEWS170	1	130	30	1	25~100	220	230	3650	4150
YEWS200	1	150	33	1	25~100	240	250	3980	4480
YEWS215	1	220	33	1	25~100	530	520	5700	6750
YEWS260	1	200	50	2	12.5~100	390	480	6130	7000
YEWS300	1	260	55	2	12.5~100	440	530	6480	7450
YEWS340	1	270	60	2	12.5~100	470	560	6750	7780
YEWS375	1	290	63	2	12.5~100	550	650	7510	8710
YEWS415	1	300	66	2	12.5~100	710	690	8060	9460

Electric Data - AC & ITS

Model	380V-3PH-50Hz			400V-3PH-50Hz			415V-3PH-50Hz		
	Inrush Current A	Locked Rotor Current A	Max.Load Current A	Inrush Current A	Locked Rotor Current A	Max.Load Current A	Inrush Current A	Locked Rotor Current A	Max.Load Current A
YEWS100	308	924	147	316	948	139	332	996	136
YEWS130	438	1315	208	449	1349	198	475	1424	195
YEWS170	493	1480	228	497	1493	216	505	1514	210
YEWS200	710	2129	328	715	2147	311	727	2180	303
YEWS215	710	2129	328	716	2147	311	727	2180	303
YEWS260	571	1315/1315	208/208	577	1349/1349	198/198	600	1424/1424	195/195
YEWS300	626	1480/1315	228/208	624	1493/1349	216/198	629	1514/1424	210/195
YEWS340	667	1480/1480	228/228	663	1493/1493	216/216	666	1514/1514	210/210
YEWS375	885	2129/1480	328/228	882	2147/1493	311/216	888	2180/1514	303/210
YEWS415	920	2129/2129	328/328	915	2147/2147	311/311	921	2180/2180	303/303

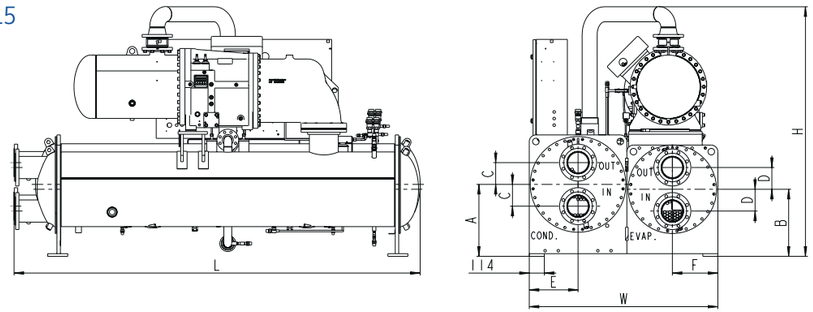
Dimensions

YEWS100



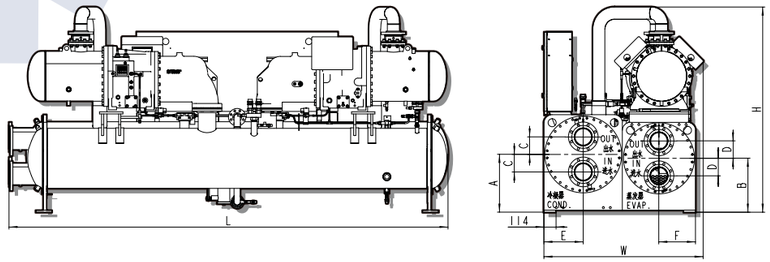
Model	L(mm)	W(mm)	H(mm)	A(mm)	B(mm)	Cmm)	D(mm)	E(mm)	F(mm)
YEWS100	2595	1280	1820	500	483	135	145	320	320

YEWS130/170/200/215



Model	L(mm)	W(mm)	H(mm)	A(mm)	B(mm)	Cmm)	D(mm)	E(mm)	F(mm)
YEWS130	3030	1280	1865	500	483	135	145	320	320
YEWS170	3055	1350	1865	540	483	155	145	345	330
YEWS200	3080	1430	1885	545	508	165	165	370	345
YEWS215	4215	1620	2035	605	545	180	180	405	405

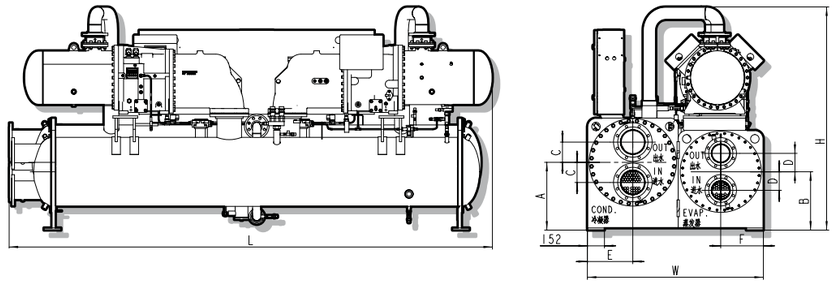
YEWS260



Model	L(mm)	W(mm)	H(mm)	A(mm)	B(mm)	Cmm)	D(mm)	E(mm)	F(mm)
YEWS260	4150	1505	1945	545	508	165	165	370	345

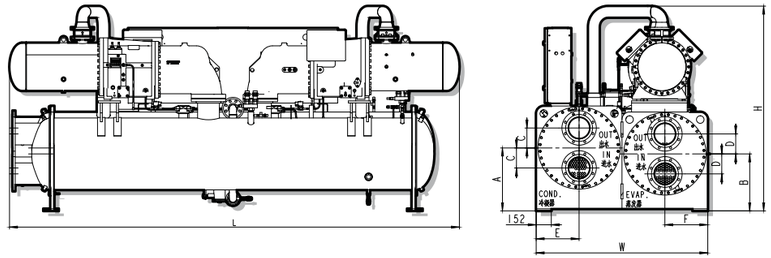
Note: Length "L" is 4180 for YEWS260-HP.

YEWS300/340/375



Model	L (mm)	W (mm)	H (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
YEWS300	4315	1570	2020	605	520	180	165	405	380
YEWS340	4315	1570	2000	605	520	180	165	405	380
YEWS375	4480	1670	2055	630	545	200	180	430	405

YEWS415

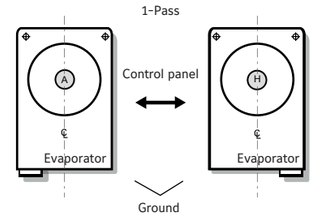


型号	L (mm)	W (mm)	H (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
YEWS415	4510	1720	2085	630	570	200	200	430	430

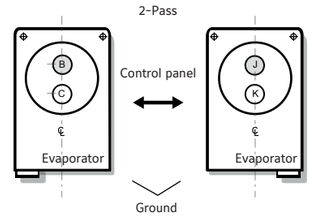
Note: 1. If refrigerant isolation valve is selected, height "H" is 50mm higher.
2. If 2.1MPa water box is selected, length "L" is 80~120mm longer.

Water Pipe Connection

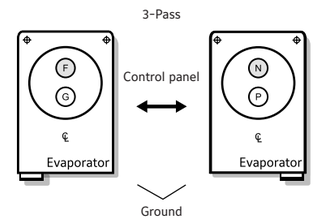
Evaporator Water Pipe Connection



Pipe configuration		
No. of Passes	Evaporator	
	Entering water	Leaving water
1	A	H
	H	A

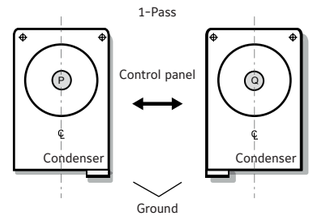


Pipe configuration		
No. of Passes	Evaporator	
	Entering Water	Leaving Water
2	C	B
	K	J

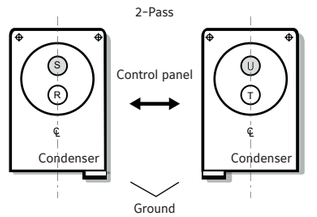


Pipe configuration		
No. of Passes	Evaporator	
	Entering Water	Leaving Water
3	G	N
	P	F

Condenser Water Pipe Connection

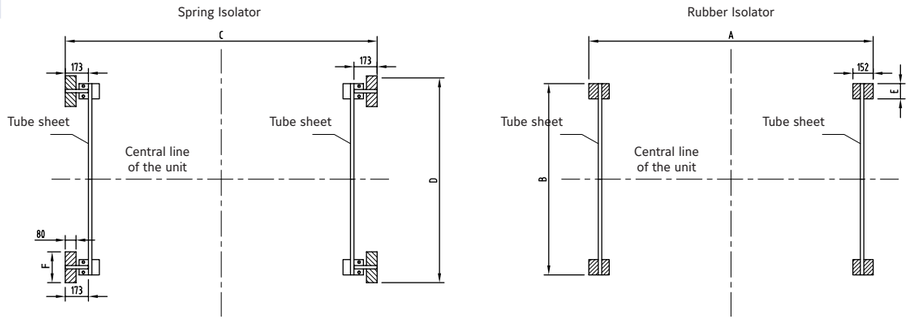


Pipe configuration		
No. of Passes	Condenser	
	Entering Water	Leaving Water
1	P	Q
	Q	P



Pipe configuration		
No. of Passes	Condenser	
	Entering Water	Leaving Water
2	R	S
	T	U

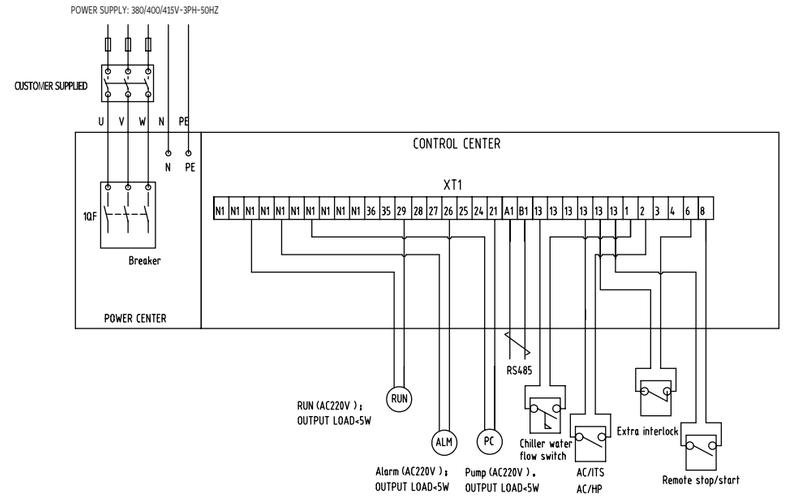
Isolator Floor Layout



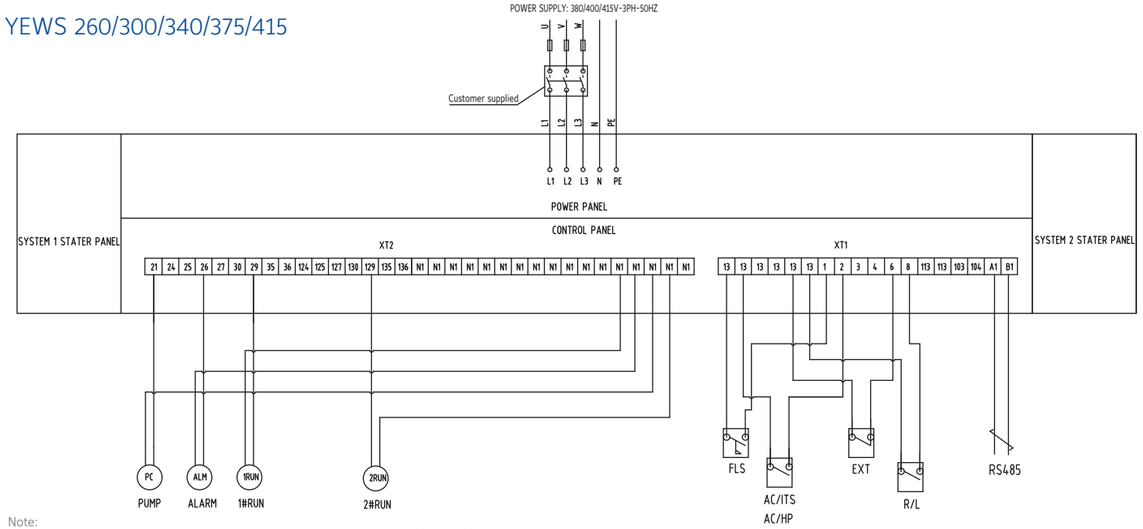
Model	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
YEWS100	2126	1280	2332	1366	114	200
YEWS130	2731	1280	2937	1366	114	200
YEWS170	2731	1350	2937	1436	114	200
YEWS200	2731	1430	2937	1516	114	200
YEWS215	3798	1620	4004	1668	152	200
YEWS260	3798	1430	4004	1546	114	230
YEWS300	3798	1570	4004	1648	152	230
YEWS340	3798	1570	4004	1648	152	230
YEWS375	3798	1670	4004	1748	152	230
YEWS415	3798	1720	4004	1798	152	230

Wiring Diagram (Wye-Delta Starter)

YEWS 100/130/170/200/215



YEWS 260/300/340/375/415



Note:
1. If there is no "external interlock EXT", please jumper connect terminal "6"and"13".
2. The cable selection should conform to the local codes.
3. If the customer's power supply is 3 phase 4 line (L1/L2/PE) ", please jumper connect terminal "N" and "PE" in the electric panel.
4. The contact resistance of flow switch, mode transition switch, external interlock and remote switch should be less than 0.5 ohm.
5. The 485 communication cable from 485 converter to terminal must be of the same type of cable.
6. Use twisted-pair cable with characteristic impedance 120 plus / minus 20% ohm as the bus cable.
7. The length of communication cable should be within 1000 meters.