Carrier AquaForce®

30XQVE

Variable-speed air-cooled screw chiller & heat pump

Cooling Capacity: 400-1480kW
Heating Capacity: 388-1410kW

AQUAFORCE greenspeed™

New generation AquaForce® 30XQVE variable-speed air-cooled screw chiller & heat pump with Greenspeed™ intelligence, uses the total variable-frequency configuration（Variable speed fan, hydronic module as option）to energize the excellence of 30XQVE in efficiency, stability, smart control and sustainability thus to meet customer needs while providing building resiliency for sustainable development.

Efficient

Reliable

Quiet

Flexible

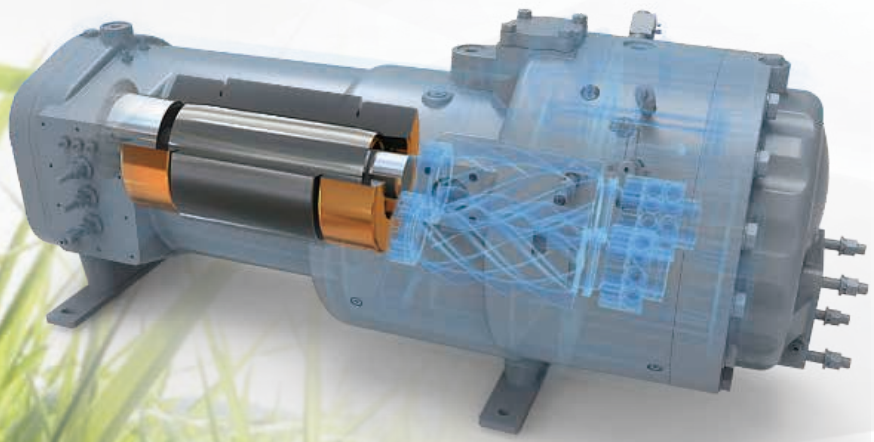
Smart

Sustainable

High efficiency

The latest generation of 06Z variable-speed compressor

1. Newly optimized design of gear ratio with precise gear mesh which has less vibration and smaller leakage compared with 06T compressor.
2. Compressor is designed without slide valve which enables infinite variable frequency adjustment thus to achieve larger operation range, more accurate control and significant mechanical loss reduction.
3. The internal pressure ratio regulating valve is adopted to realize accurate adjustment through turning on and off the internal solenoid valve according to different pressure ratio and load, which can meet requirements of different working conditions and significantly improve the part load performance.
4. Compressor has a wide operation range.



High speed fan (Optional variable frequency motor)

30XQVE adopts high-speed low-noise axial fan and can be equipped with high-efficiency variable frequency motor (option). The IPLV can reach 4.4* under GB condition.

*Selected model

Variable frequency hydraulic module(option)

30XQVE has built-in variable frequency hydraulic module (option), which integrates variable frequency water pump, closed expansion water tank, filter, pressure sensor, high-precision flow regulating valve and other components. The variable speed compressor equipped with the variable flow system can save system operation cost in the whole life cycle.

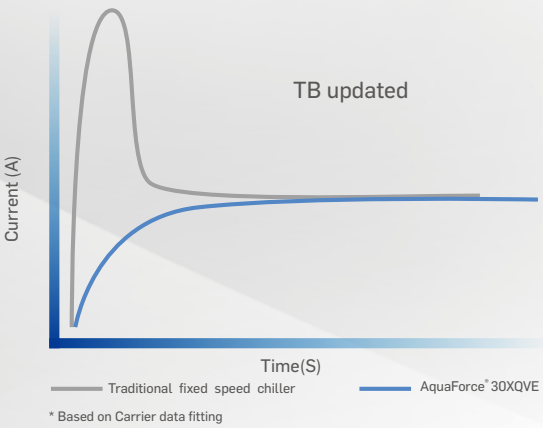
V-shaped coil design

30XQVE adopts V-shaped coil design which makes for the uniform distribution of wind field and also ensures excellent unit performance. Besides, the unique defrosting control logic guarantees stable heating capacity of the unit for a long time.

Unconditional stability

Low Start-up Current

The compressor starts with VFD drive and the low start-up current avoids the shock to the power grid. Meanwhile, this start-up method has no impact on water system pipe network to prevent the pipe rupture caused by excessive pipe network pressure.

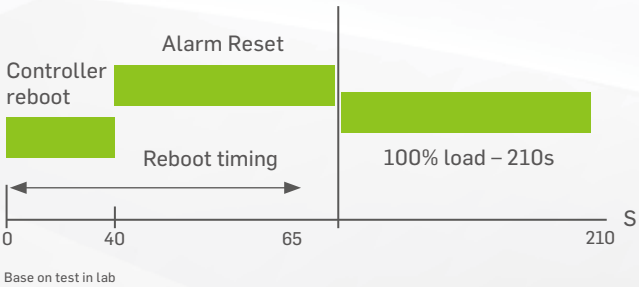


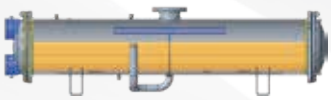
Modular Design

30XQVE modules can be connected in series to avoid operation interference and realize stable control of water temperature thus to ensure more stable operation of the unit.

Swift Start

30XQVE standardly configures swift start function which can realize 80% capacity upload within 180s after power recovery and keep you away from the potential threat of refrigeration system failure due to temporary power loss.





Evaporator dual anti-freezing protection(option)

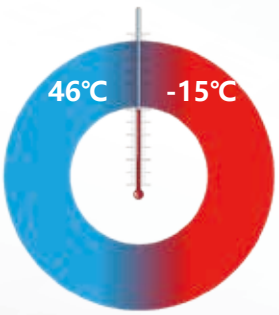
30XQVE is optionally configures anti-freeze module to protect dual-protection for chiller in winter.

when the ambient in winter is lower 0C, it should select PT041F(anti-freeze module) or interlock control customer chilled pump and electric butterfly valve (operated by Carrier service engineer).

chiller should keep power-on in winter and solve the chiller error.

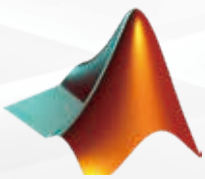
add EG into the system loop when the chiller is out of use for long time or drain the water in heat exchange and water pipe.

When the ambient temperature is lower than the set point, the built-in antifreeze water pump is started to prevent the falling of evaporator water temperature through the heat dissipation of the water pump motor. If the evaporator water temperature is lower than the set protection point, the built-in auxiliary electric heating is turned on. There will be alarm when the evaporator water temperature drops down to the limit point.



Wide operation and stable heating

30XQVE has a wide operating range and can automatically switch between cold and hot mode to ensure comfort throughout the year. When operating under low-temperature heating conditions in winter, the optimized defrosting control logic prevents the heating capacity loss caused by unnecessary defrosting and avoids the large fluctuation of water temperature on customer side meanwhile.



MATLAB+
Simulink+
Embedded Coder*

Operation with multiple protection

Accurate algorithms exported by a variety of professional software can provide more than 60 kinds of operation protection under different application scenarios to ensure the continuous stable operation of the unit.

*MATLAB and its logo are registered trademarks of American MathWorks company

Quiet operation

Reduce compressor noise

1. Variable-frequency high-efficiency motor drive is adopted in 30XQVE compressor which produces less pulsating noise compared with the slide valve drive design of constant frequency compressor.
2. The built-in integrated silencer (IRA) of 30XQVE compressor can significantly reduce the pressure pulsation on the exhaust side which reduces 8dBA* than the compressor equipped with traditional external silencer.
3. The optimized casing structure and special compensation channel design effectively reduce the transmission of vibration noise.
4. Newly optimized design of gear ratio stabilizes the gas and reduces the gas noise.

* Based on the standard ari575 equipment space noise measurement method to determine the A-weighted sound pressure level

Reduce noise transmission

1. 30XQVE is designed with built-in silencer inside oil separator which can effectively decrease inside energy thus to reduce the noise of the unit.
2. Optimized shell structure reduced both vibration level and radiation-transmitted noise.
3. The transmission of exhaust pressure pulsation is significantly attenuated due to the optimized design of compressor exhaust pipeline thus to effectively reduce the vibration and noise.



Rich ultra-low noise options

30XQVE provide various customized noise reduction options according to the project and customer needs

PT015LS ultra-low noise option Compressor suction pipe is packed with sound-absorbing materials and equipped with a low-noise fan based on PT015 thus to further reduce the noise of the whole unit (5 dB lower than that of the standard unit *)

PT015 Low noise level (compressor enclosure) can further isolate the noise of compressor, exhaust pipe and other components.

PT305A spring isolator can balance the unit weight and cooperate with the compressor shock absorber to further reduce vibration thus to effectively alleviate the noise transmission caused by unit vibration.




* Compared with the standard unit without this configuration and the sound power level test method and value refer to the standard ISO3747

Flexible Installation

We cherish
Your precious time and space

Smart Control

Intelligent Operation

User-friendly interface

30XQVE is equipped with a 7-inch high-resolution colorful touch screen. The intuitive menu enables accurate control of the unit without turning page.

BAS protocols

Control panel supports both Modbus IP/RTU and BACnet IP protocols with which the chiller can seamlessly connect with the Building Automation System or Carrier control network.

Wireless communication

Standard WIFI connection communication provides more professional intelligent service experience.

Our 2030 ESG Goals

OUR PLANET

- Invest over **$2B** to develop **healthy, safe and sustainable building and cold chain solutions** that incorporate **sustainable design principles and reduce life-cycle impacts.**
- Achieve **carbon-neutral** operations.
- Reduce **energy intensity** by 10% across our operations.
- Achieve **water neutrality** in our operations, prioritizing water-scarce locations.
- Deliver **zero waste** to landfill from manufacturing locations.
- Establish a **responsible supply chain program** and assess key factory suppliers against program criteria.

OUR PEOPLE

- Exceed benchmark **employee engagement.**
- Achieve **gender parity** in senior leadership roles.
- Maintain world-class **safety metrics.**
- Achieve a **diverse workforce** that represents the communities in which we live and work.
- Foster the growth of **employee resource groups** to drive social impact.

OUR COMMUNITIES

- Positively impact communities through enabling access to **safe and healthy indoor environments, alleviating hunger and food waste, and volunteering our time and talent.**
- Invest in **STEM education** programs that promote **diversity and inclusion.**
- Promote **sustainability** through education, partnerships and climate resiliency programs.

REDUCE OUR CUSTOMERS' CARBON FOOTPRINTBY MORE THAN

1 GIGATON.

Carrier has been continuously working on sustainable solutions for our customers

Product and technology

High efficiency chillers
Heat pump
VFD
Free cooling
Heat recovery
Digital solutions

System

HCP
District cooling/heating
Retrofit
Energy saving solutions
for different applications

New Refrigerant

Research and apply new environmentally
responsible refrigerant

Achieve carbon-neutral

Reduce our customers' carbon footprint by more than 1 Gigaton Maintain world-classs afety metrics. Develop healthy, safe and sustainable building and cold chain solutions

30XQVE Your Ideal Option

VFD Drive

Heat pump

Wide operation map -15℃ ~46℃

Apply in many industry

Nomenclature

30XQVEC0401 PT015LS

Option list		Scope
003A	Pretreated Coating (Gold Fin)	0400-1500
010V	VS condenser fan	0400-1500
012	High static fan	0401-1500
015	Sheet metal enclosure	0401-1500
015LS	Super low noise	0401-1500
020A	IP54 Control Box	0401-1500
023	Grid ang dual panel	0401-1500
023B	Dual panel	0401-1500
041F	Anti-freeze module	0401-1500
104	1.6Mpa evaporator	0401-1500
116J	VFD hydronic kit(single circuit)	0401/0501/0621/0751
148B	J-Bus gateway	0401-1500
148C	BacNet MSTP gateway	0401-1500
148D	LonTalk gateway	0401-1500
156	EMM	0401-1500
275	Remote controller	0401-1500
299	38mm evaporator isolation	0401-1500
305A	Spring isolator	0401-1500
309D	Dual safety valve with ball valve	0401-1500
345	Wood packing	0401-1500
835	Intelligent power meter	0401-1500
312	Australian Request	0401-1500
C	R513A	
E	Export	

Chiller model 30XQVE VFD Air-cooled Screw Heat Pump 30XQVE0401-1500

Chiller picture contains PT023B option,standard chiller doesn't have.

Range of operation

Cooling Condition		
Water Side Heat Exchanger	Minium (℃)	Maxium(℃)
Chilled Water Entering Water Temperater (start) ℃	-	45
Chilled Water Entering Water Temperater (operating) ℃	6.8	25
Chilled Water Leaving Water Temperater (operating) ℃	3.3	20
Air Side Heat Exchanger	Minium (℃)	Maxium(℃)
Inlet Air Temperature ℃	-10	46
Heating Condition		
Water Side Heat Exchanger	Minium (℃)	Maxium(℃)
Hot Water Entering Water Temperater (operating) ℃	25	55
Hot Water Leaving Water Temperater (operating) ℃	30	60
Air Side Heat Exchanger	Minium (℃)	Maxium(℃)
Inlet Air Temperature ℃	-10(full load)	30
	-15(part load)	

30XQVE Performance Data

Chiller Model 30XQV		0401	0501	0621	0751	0802	0902	1002	1122	1250	1370	1500
Nominal Cooling Capacity	kW	396.0	485.1	608.9	732.6	776.0	873.0	950.6	1072.0	1218.0	1341.0	1465.0
Nominal Heating Capacity	kW	384.1	455.4	592.0	698.0	752.8	846.8	922.5	1040.0	1153.0	1290.0	1396.0
Power input (cooling)	kW	127.1	158.6	199.6	239.5	254.5	282.8	307.9	351.5	398.0	439.2	478.9
Power input (heating)	kW	123.3	149.5	193.6	228.4	246.1	272.7	297.1	340.1	377.9	422.0	456.8
Min Load%	%	30	25	33	25	15	15	15	15	15	15	15
Refrigerant		HFC-134a										
Refrigerant Charge Circuit A	kg	140	160	205	235	115	140	160	160	160	205	235
Refrigerant Charge Circuit B	kg	-	-	-	-	160	160	160	205	-	-	-
Refrigerant Charge Circuit C	kg	-	-	-	-	-	-	-	-	235	235	235
Refrigerant Charge Circuit D	kg	-	-	-	-	-	-	-	-	-	-	-
Compressor		Variable Semi-hemetic Screw Compressor										
Compressor Qty, Circuit A		1	1	1	1	1	1	1	1	1	1	1
Compressor Qty, Circuit B		-	-	-	-	1	1	1	1	-	-	-
Compressor Qty, Circuit C		-	-	-	-	-	-	-	-	1	1	1
Compressor Qty, Circuit D		-	-	-	-	-	-	-	-	-	-	-
Controller		7 inch touch pilot control system										
Air Heat Exchanger		Cu-Al heat exchanger										
Fan		Gen IV "Axial Flying Bird with rotating shround"										
Fan Quantity		8	8	10	12	14	16	16	18	20	22	24
Total Air-Flow	l/s	36112	36112	45140	54168	63196	72224	72224	81252	90280	99308	108336
Fan Speed	rpm	950	950	950	950	950	950	950	950	950	950	950
Water Heat Exchanger		Flooded Heat Exchanger										
Water Content	m^3	84	84	101	101	147	175	175	175	185	202	202
Nominal flow rate (cooling)	l/s	18.88	23.12	29.03	34.92	36.99	41.62	45.31	51.09	58.04	63.95	69.84
Nonimal Pressure Drop	kPa	26.6	39.5	45.7	64.1	45.8	66.2	77.4	96.6	53.0	58.0	67.2
Max Water side pressure(without Hydronic Kit)	kPa	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Water Connection		Victaulic										
Nominal Diameter	DN	125	125	150	150	150	150	150	150	200	200	200
Electircal data												
Nominal Power Supply		400V-3ph-50hz										
Control Power Supply		24V via internal transfomer										
Starter		VFD										
Fan and Control Power	kW	13.3	13.3	16.5	19.7	26.6	26.6	26.6	29.8	33	36.2	39.4
Nominal unit current draw, Circuit A+B	A	191	239	309	361	391	434	473	540	239	309	361
Nominal unit current draw, Circuit C+D	A	-	-	-	-	-	-	-	-	361	361	361
Max unit current draw, Circuit A+B	A	307	360	457	541	531	573	641	737	360	457	541
Max unit current draw, Circuit C+D	A	-	-	-	-	-	-	-	-	541	541	541
Max Start-up current draw, Circult A+B	A	307	360	457	541	614	667	720	817	360	457	541
Max Start-up current draw, Circult C+D	A	-	-	-	-	-	-	-	-	541	541	541
Max Start-up Power	kW	198	232	294	348	396	430	464	526	580	643	697
Unit Length	mm	5454	5454	6648	7842	9118	10312	10312	11506	13296	14490	15684
Unit Width	mm	2253										
Unit Height	mm	2297										
Shippment Weight(without hydronic kit)	kg	5957	6126	7025	7370	9933	10410	10540	11705	13496	14395	14740
Operation Weight(without hydronic kit)	kg	5819	6027	6905	7267	9830	10300	10430	11560	13294	14172	14534

Note:

1. 30XQV0800-1500 duplex design,Module1 (circuit A+B) andModule 2 (C+D) are shipped separately when ex-factory .
2. Nominal cooling mode: Water heat exchanger entering/leaving temperature 12/7°C, outdoor air-bulb temperature: 35°C.
3. Nominal heating mode: Nominal flow rate/leaving temperature -/45°C, outdoor air dry/wet-bulb temperature: 7/6°C.
4. Water heat exchanger fouling factor 0.018 m^2·K/kW.

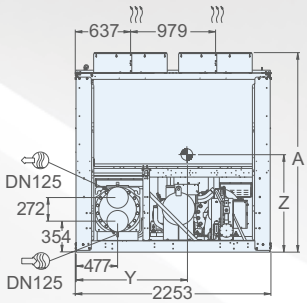
30XQVEC Performance Data

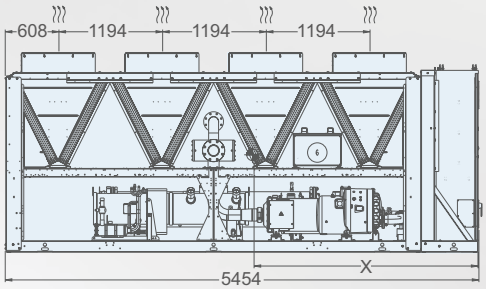
Chiller Model 30XQVEC		0401	0501	0621	0751	0802	0902	1002	1122	1250	1370	1500
Nominal Cooling Capacity	kW	396.2	484.9	608.8	732.5	776.3	873.4	950.9	1072.0	1218.0	1342.0	1465.0
Nominal Heating Capacity	kW	384.0	455.5	591.9	698.3	752.5	846.7	922.4	1039.0	1154.0	1291.0	1396.0
Power input (cooling)	kW	132.4	165.1	207.9	249.4	265.1	294.7	320.9	366.3	414.8	457.8	498.9
Power input (heating)	kW	128.4	155.8	201.7	238.0	256.3	284.0	309.3	354.0	393.9	439.8	475.7
Min Load%	%	30	25	30	25	15	15	15	15	15	15	15
Refrigerant		R513A										
Refrigerant Charge Circuit A	kg	140	160	205	235	115	140	160	160	160	205	235
Refrigerant Charge Circuit B	kg	-	-	-	-	160	160	160	205	-	-	-
Refrigerant Charge Circuit C	kg	-	-	-	-	-	-	-	-	235	235	235
Refrigerant Charge Circuit D	kg	-	-	-	-	-	-	-	-	-	-	-
Compressor		Variable Semi-hemetic Screw Compressor										
Compressor Qty, Circuit A		1	1	1	1	1	1	1	1	1	1	1
Compressor Qty, Circuit B		-	-	-	-	1	1	1	1	-	-	-
Compressor Qty, Circuit C		-	-	-	-	-	-	-	-	1	1	1
Compressor Qty, Circuit D		-	-	-	-	-	-	-	-	-	-	-
Controller		7 inch touch pilot control system										
Air Heat Exchanger		Cu-Al heat exchanger										
Fan		Gen IV "Axial Flying Bird with rotating shround"										
Fan Quantity		8	8	10	12	14	16	16	18	20	22	24
Total Air-Flow	l/s	36112	36112	45140	54168	63196	72224	72224	81252	90280	99308	108336
Fan Speed	rpm	950	950	950	950	950	950	950	950	950	950	950
Water Heat Exchanger		Flooded Heat Exchanger										
Water Content	m^3	84	84	101	101	147	175	175	175	185	202	202
Nominal flow rate (cooling)	l/s	18.89	23.12	29.03	34.92	37.00	41.63	45.33	51.10	58.05	63.96	69.85
Nonimal Pressure Drop	kPa	26.6	39.5	45.7	64.1	45.8	66.2	77.5	96.6	53.0	58.1	67.2
Max Water side pressure(without Hydronic Kit)	kPa	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Water Connection (with Hydronic Kit)		Victaulic										
Nominal Diameter	DN	125	125	150	150	150	150	150	150	200	200	200
Electircal data												
Nominal Power Supply		400V-3ph-50hz										
Control Power Supply		24V via internal transfomer										
Starter		VFD										
Fan and Control Power	kW	13.3	13.3	16.5	19.7	26.6	30.4	30.4	34.2	33.0	36.2	39.4
Nominal unit current draw, Circuit A+B	A	191	239	309	361	391	434	473	540	239	309	361
Nominal unit current draw, Circuit C+D	A	-	-	-	-	-	-	-	-	361	361	361
Max unit current draw, Circuit A+B	A	276	327	413	489	531	573	641	737	327	413	489
Max unit current draw, Circuit C+D	A	-	-	-	-	-	-	-	-	489	489	489
Max Start-up current draw, Circuit A+B	A	276	327	413	489	531	573	641	737	327	413	489
Max Start-up current draw, Circuit C+D	A	-	-	-	-	-	-	-	-	489	489	489
Max Start-up Power	kW	198	232	294	348	342	369	413	475	580	643	697
Unit Length	mm	5454	5454	6648	7842	9118	10312	10312	11506	13296	14490	15684
Unit Width	mm	2253										
Unit Height	mm	2297										
Shippment Weight(without hydronic kit)	kg	5957	6126	7025	7370	9933	10410	10540	11705	13496	14395	14740
Operation Weight(without hydronic kit)	kg	5819	6027	6905	7267	9830	10300	10430	11560	13294	14172	14534

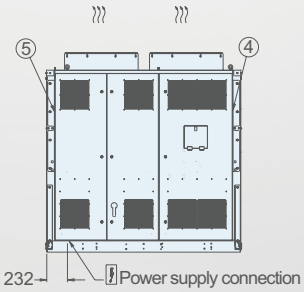
Note:

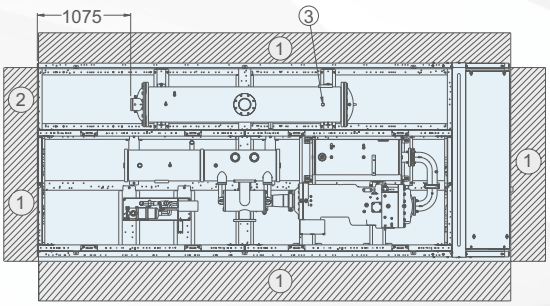
1. 30XQVEC1250-1500 duplex design, Module1 (circuit A+B) andModule 2 (C+D) are shipped separately when ex-factory.
2. Nominal cooling mode: Water heat exchanger entering/leaving temperature 12/7ºC, outdoor air-bulb temperature: 35ºC.
3. Nominal heating mode: Nominal flow rate/leaving temperature -/45ºC, outdoor air dry/wet-bulb temperature: 7/6ºC.
4. Water heat exchanger fouling factor 0.018 m^2·K/kW.

30XQVE/XQVEC0401&0501 drawing



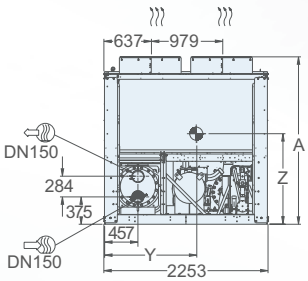


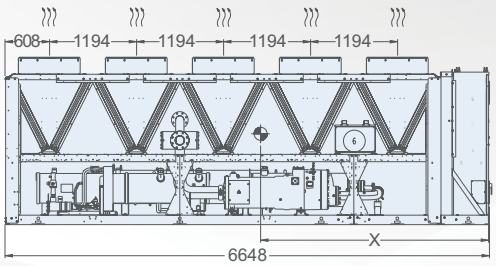


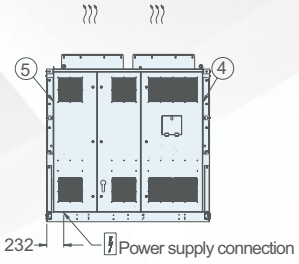


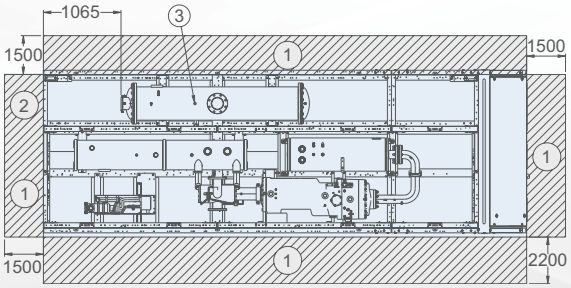
Model	X (mm)	Y (mm)	Z (mm)	A (mm)
30XQV0401	2566	1235	860	2297
30XQVC0401				
30XQV0401PT015LS				2352
30XQVC0401PT015LS				
30XQV0501				2297
30XQVC0501				
30XQV0501PT015LS				2352
30XQVC0501PT015LS				

30XQVE/XQVEC0621 drawing



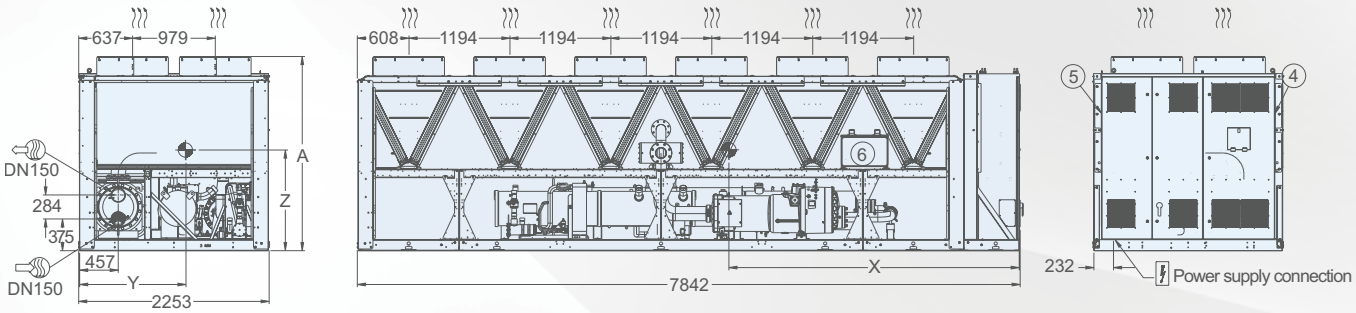


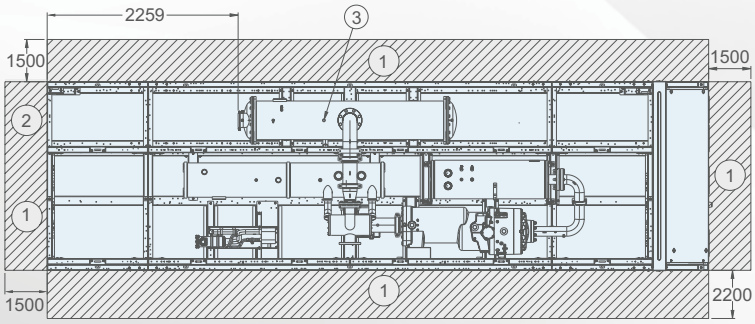




Model	X (mm)	Y (mm)	Z (mm)	A (mm)
30XQV0621	3129	1205	903	2297
30XQVC0621				
30XQV0621PT015LS				2352
30XQVC0621PT015LS				

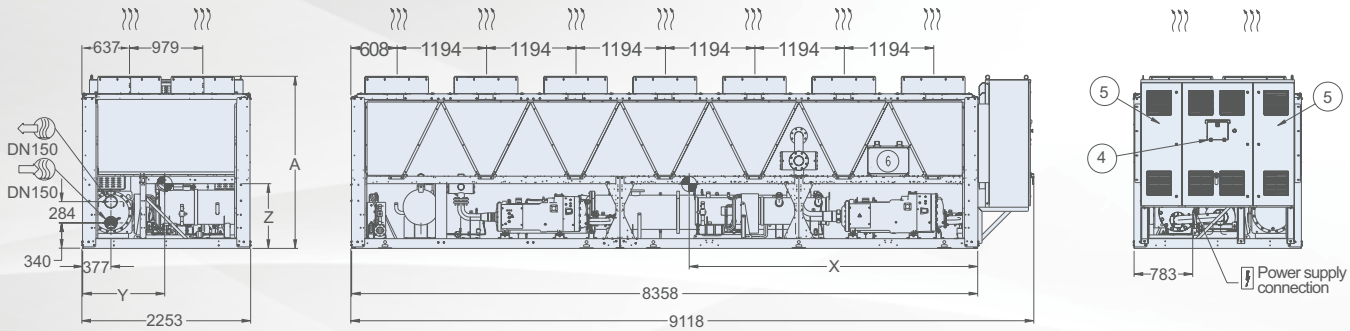
30XQVE/XQVEC0751 drawing

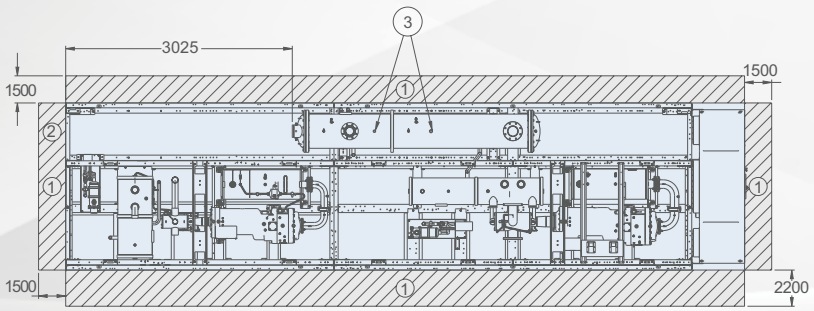




Model	X (mm)	Y (mm)	Z (mm)	A (mm)
30XQV0751	3415	1204	927	2297
30XQVC0751				
30XQV0751PT015LS				2352
30XQVC0751PT015LS				

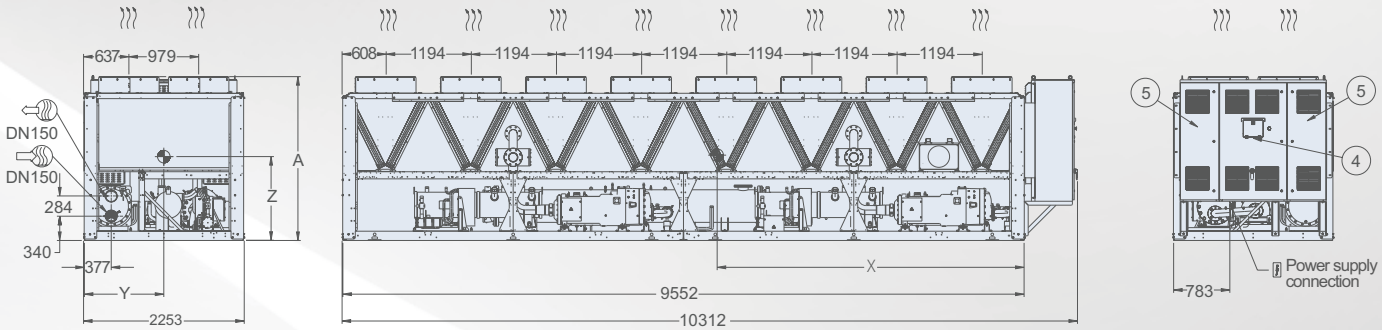
30XQVE/XQVEC0802 drawing

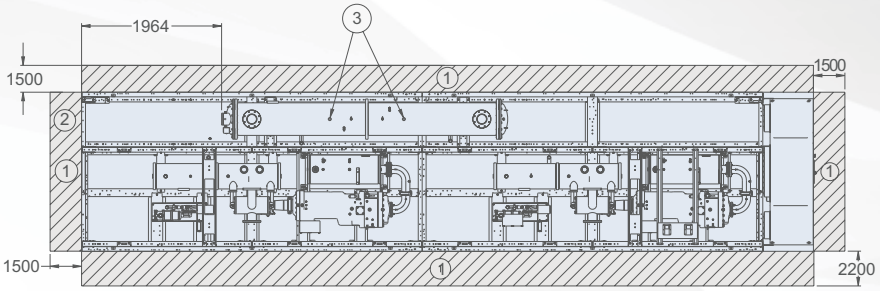




Model	X (mm)	Y (mm)	Z (mm)	A (mm)
30XQV0802	3771	1194	867	2297
30XQV0802PT015LS				2352
30XQVC0802				2297
30XQVC0802PT015LS				2352

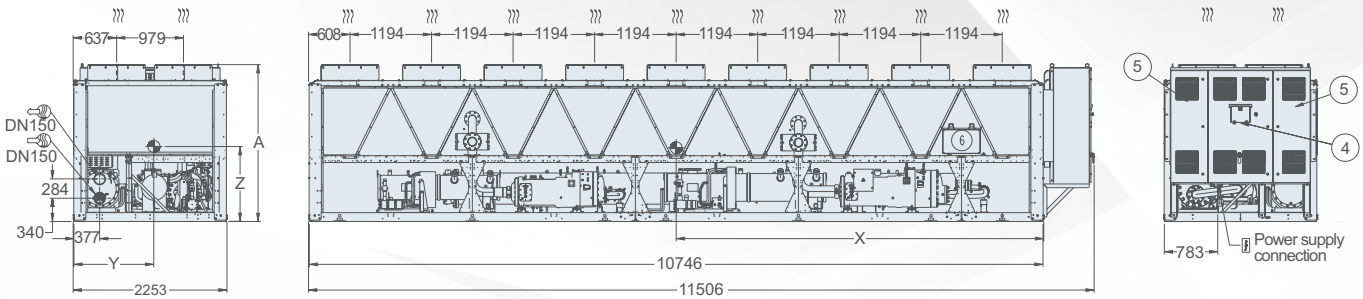
30XQVE/XQVEC0902-1002 drawing

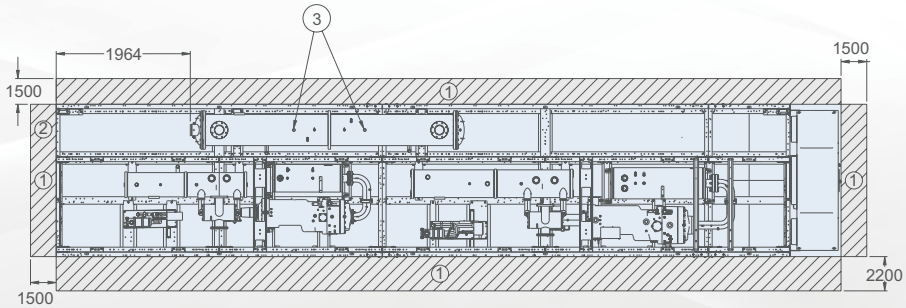




Model	X (mm)	Y (mm)	Z (mm)	A (mm)
30XQV0902	4288	1191	889	2297
30XQV0902PT015LS				2352
30XQV1002				2297
30XQV1002PT015LS				2352
30XQVC0902				2297
30XQVC0902PT015LS				2352
30XQVC1002				2297
30XQVC1002PT015LS				2352

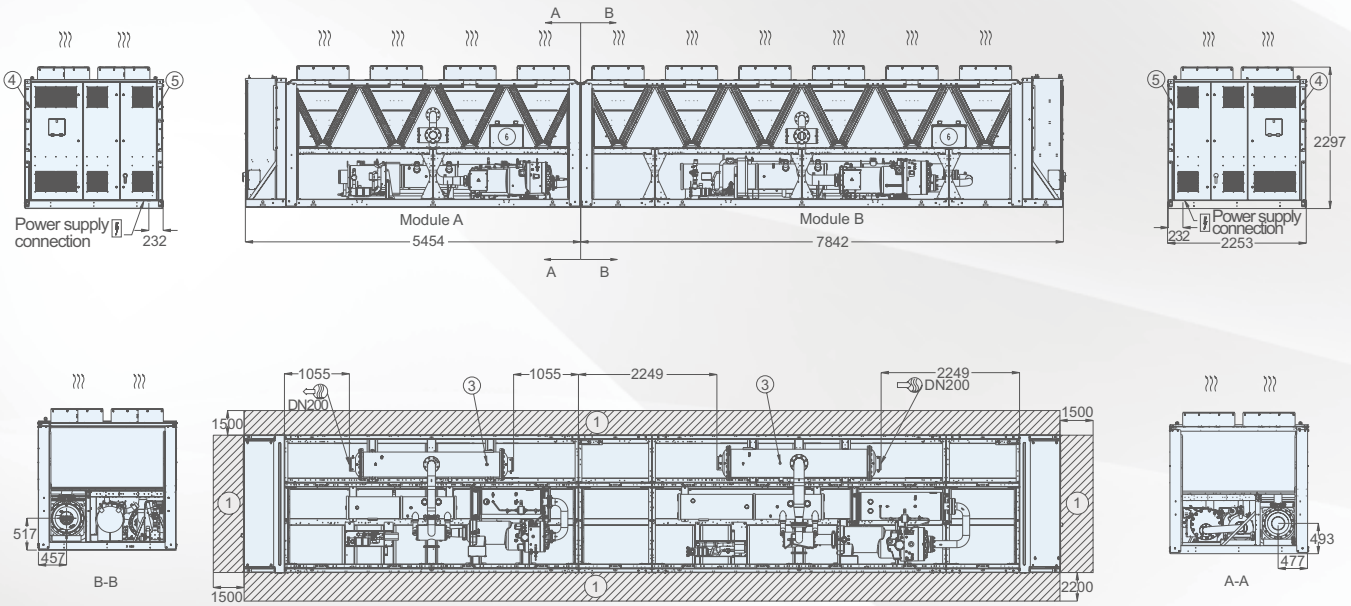
30XQVE/XQVEC1122 drawing





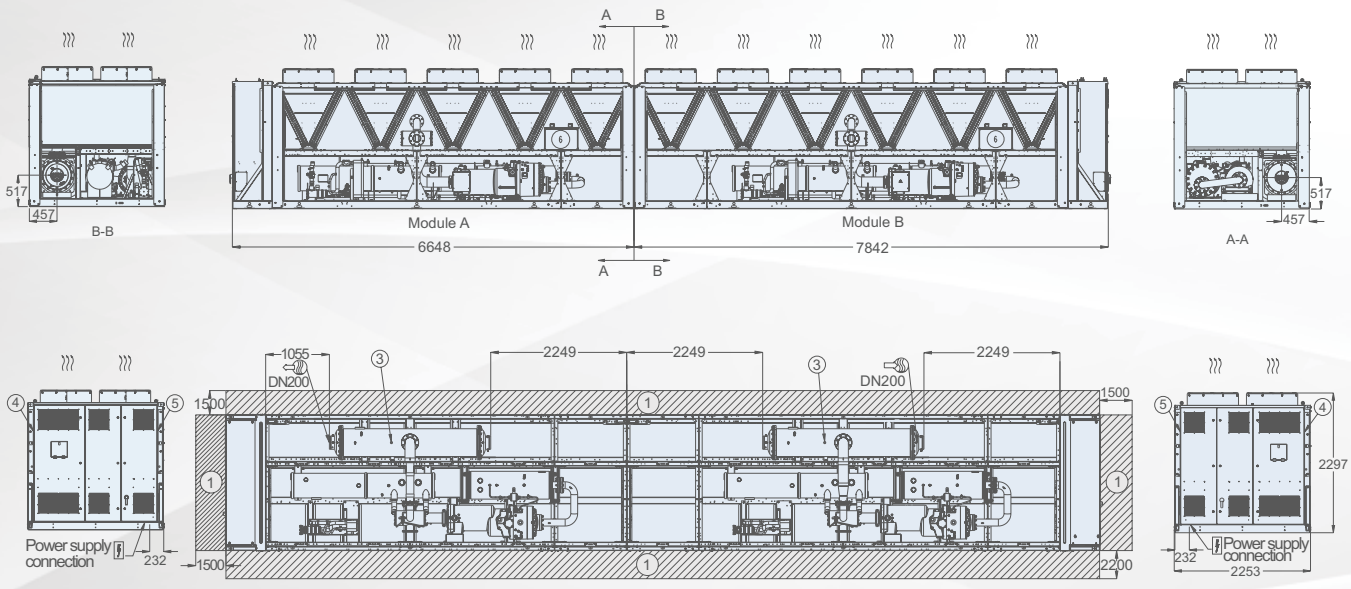
Model	X (mm)	Y (mm)	Z (mm)	A (mm)
30XQV1122	5394	1165	935	2297
30XQV1122PT015LS				2352
30XQVC1122				2297
30XQVC1122PT015LS				2352

30XQVE/XQVEC1250 drawing



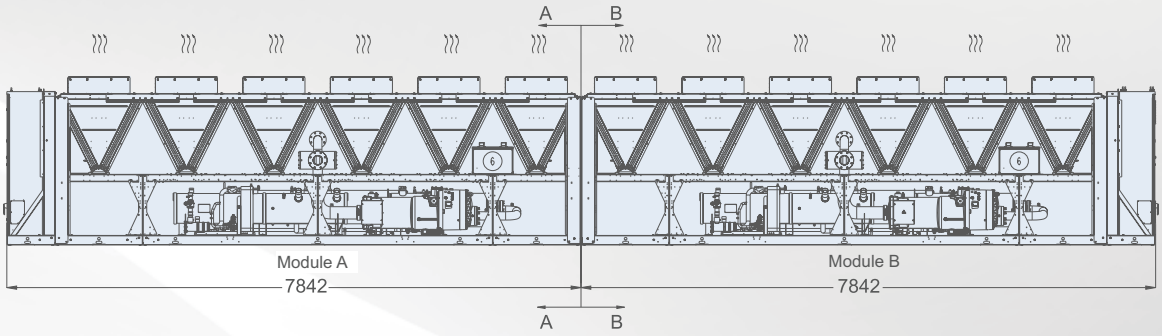
Model	Module A	Module B
30XQV1250	30XQV050101	30XQV075102
30XQVC1250	30XQVC050101	30XQVC075102

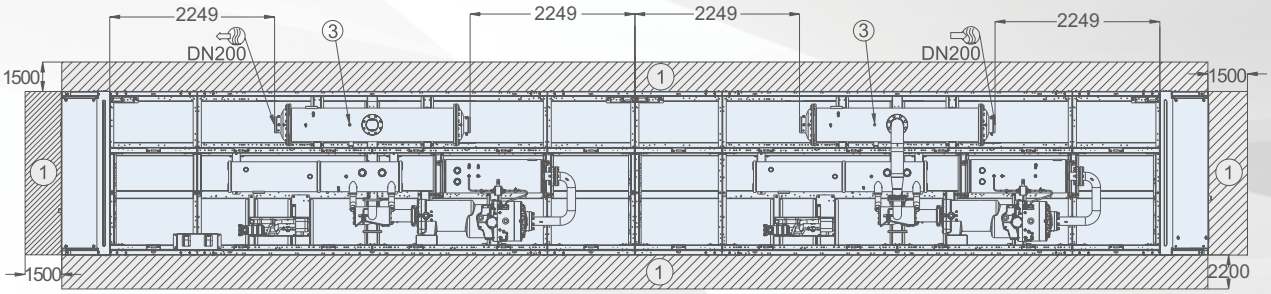
30XQVE/XQVEC1370 drawing

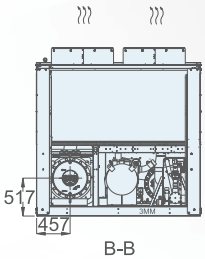


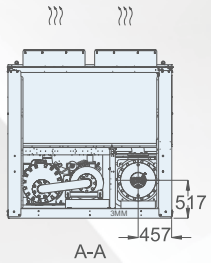
Model	Module A	Module B
30XQV1370	30XQV062101	30XQV075102
30XQVC1370	30XQVC062101	30XQVC075102

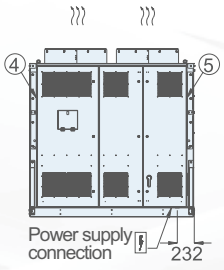
30XQVE/XQVEC1500 drawing

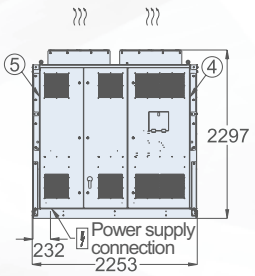






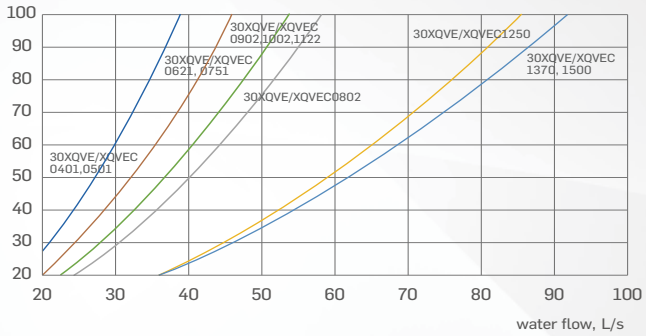


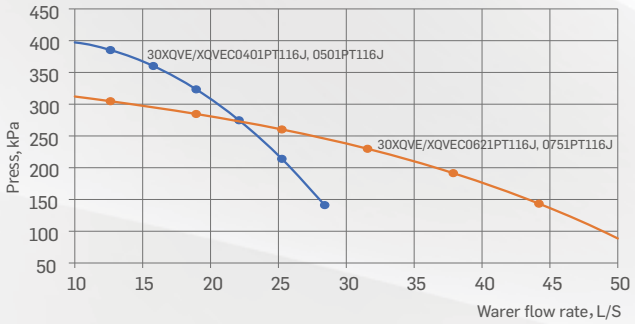




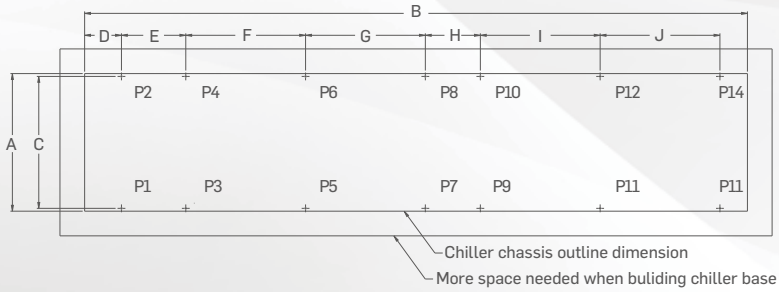
Model	Module A	Module B
30XQV1500	30XQV075101	30XQV075102
30XQVC1500	30XQVC075101	30XQVC075102

Water Side heat exchanger pressure drop cure and pump curve (only for single circuit)



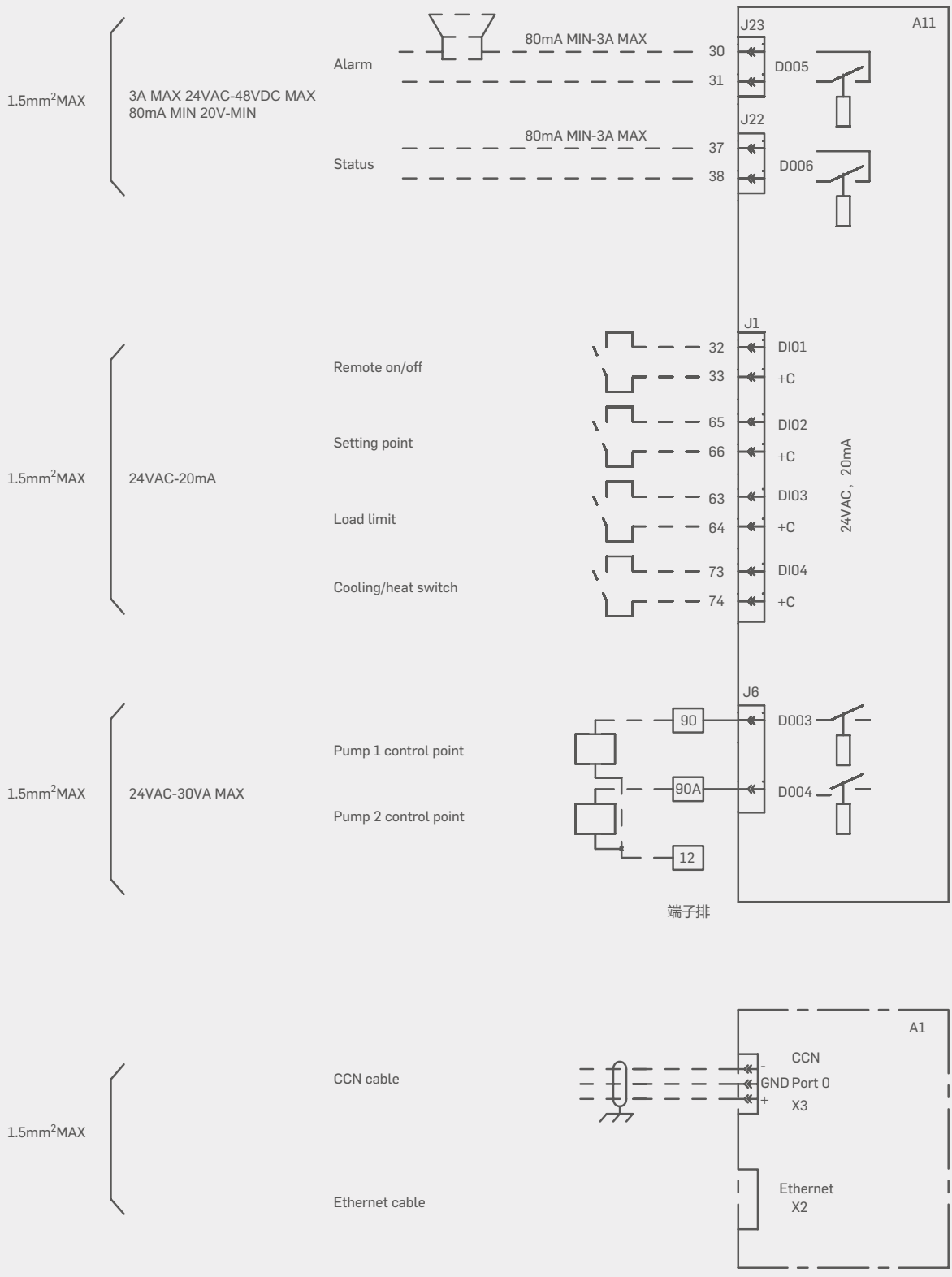


30XQVE weight distribution



Model	Dimensions mm										Weight distribution kg														Operating weight
	A	B	C	D	E	F	G	H	I	J	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	kg
30XQVE/XQVEC0401	2231	5432	2139	446	1942	1942	824				751	600	794	634	836	668	854	682							5819
30XQVE/XQVEC0401PT015	2231	5432	2139	446	1942	1942	824				793	634	837	669	881	704	900	719							6137
30XQVE/XQVEC0401PT116J	2231	6626	2139	597	1043	1942	1942	824			500	453	556	503	660	597	763	690	807	730					6259
30XQVE/XQVEC0501	2231	5432	2139	446	1942	1942	824				783	631	821	661	859	692	875	705							6027
30XQVE/XQVEC1250 Module A	2231	5432	2139	278	824	1942	1942				696	577	746	619	866	719	986	818							6027
30XQVE/XQVEC0501PT015	2231	5432	2139	446	1942	1942	824				825	664	865	696	904	728	921	742							6345
30XQVE/XQVEC0501PT116J	2231	6626	2139	597	1043	1942	1942	824			521	473	576	523	680	618	784	712	828	752					6467
30XQVE/XQVEC0621	2231	6626	2139	446	1942	1942	1043	975			696	589	726	614	757	640	773	654	789	667					6905
30XQVE/XQVEC1370 Module A	2231	6626	2139	278	824	1942	1942	1043			615	551	648	581	727	651	805	721	847	759					6905
30XQVE/XQVEC0621PT015	2231	6626	2139	446	1942	1942	1043	975			736	622	768	649	800	677	818	691	843	705					7309
30XQVE/XQVEC0621PT116J	2231	7820	2139	597	1043	1942	1942	1043	975		567	543	590	565	633	606	675	648	698	670	720	690			7605
30XQVE/XQVEC0751	2231	7820	2139	597	1043	1942	1942	1043	975		558	473	586	497	638	541	690	584	718	608	744	630			7267
30XQVE/XQVEC1250 Module B	2231	7820	2139	597	1043	1942	1942	1043	975		558	473	586	497	638	541	690	584	718	608	744	630			7267
30XQVE/XQVEC1370 Module B	2231	7820	2139	597	1043	1942	1942	1043	975		558	473	586	497	638	541	690	584	718	608	744	630			7267
30XQVE/XQVEC1500 Module B	2231	7820	2139	597	1043	1942	1942	1043	975		558	473	586	497	638	541	690	584	718	608	744	630			7267
30XQVE/XQVEC1500 Module A	2231	7820	2139	278	975	1043	1942	1942	1043		502	450	542	486	585	525	666	597	747	669	790	708			7267
30XQVE/XQVEC0751PT015	2231	7820	2139	597	1043	1942	1942	1043	975		589	499	618	524	673	570	727	616	757	641	784	664			7662
30XQVE/XQVEC0751PT116J	2231	7820	2139	597	1043	1942	1942	1043	975		595	572	613	589	646	621	680	653	698	670	714	686			7737
30XQVE/XQVEC0802	2231	8538	2139	446	1942	1942	892	2690			909	785	993	857	1077	930	1116	963	1181	1019					9830
30XQVE/XQVEC0802PT015	2231	8538	2139	446	1942	1942	892	2690			1111	959	1214	1048	1317	1137	1364	1177	1443	1246					12016
30XQVE/XQVEC0902	2231	9552	2139	446	1942	1942	892	1942	1942		815	708	863	748	908	788	930	807	976	847	1022	888			10300
30XQVE/XQVEC0902PT015	2231	9552	2139	446	1942	1942	892	1942	1942		1002	869	1059	919	1116	969	1142	991	1199	1041	1255	1090			12652
30XQVE/XQVEC1002	2231	9552	2139	446	1942	1942	892	1942	1942		826	717	873	758	920	798	941	817	988	858	1035	899			10430
30XQVE/XQVEC1002PT015	2231	9552	2139	446	1942	1942	892	1942	1942		1052	913	1112	965	1172	1017	1199	1041	1259	1093	1319	1146			13288
30XQVE/XQVEC1122	2231	10746	2139	597	1043	1942	1942	892	1942	1942	867	791	866	789	865	789	864	787	863	787	862	786	861	783	11560
30XQVE/XQVEC1122PT015	2231	10746	2139	597	1043	1942	1942	892	1942	1942	1050	958	1049	956	1048	955	1046	953	1045	953	1044	952	1042	950	14001

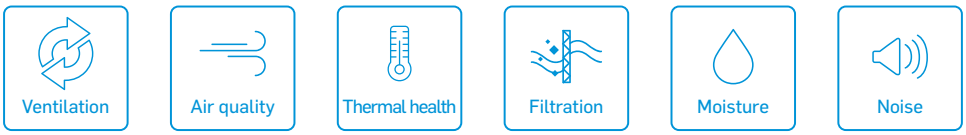
Jobsite electric drawing



HEALTHY**BUILDINGS**

As the inventors of modern air conditioning and a world leader in HVAC, refrigeration, and fire and security, solutions, Carrier has a legacy of creating safe and comfortable buildings. Our Healthy Buildings Program builds on that legacy through in-depth expertise and a holistic suite of healthy building technologies and services .to address the immediate pandemic concerns and long into the future.

6 of 9 foundations of healthy building are related closely to air conditioning system.



Primary support for the study came from Carrier.
MacNaughton P, Allen J, Satish U, Laurent J, Flanigan S, Vallarino J, Coull B, Spengler. 2016. The Impact of Working in a Green Certified Building on Cognitive Function and Health. Building and Environment DOI: 10.1016/j.buildenv.2016.11.041

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