



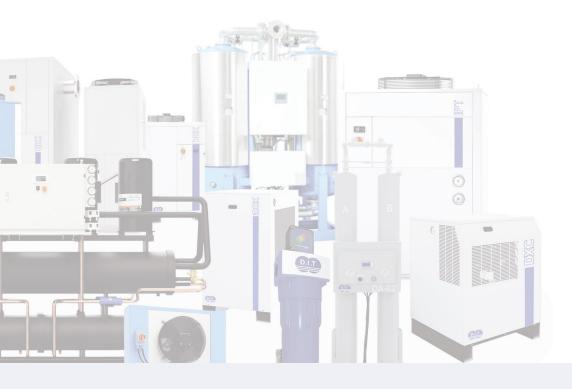
AIR-TO-WATER INDUSTRIAL PROCESS CHILLERS

IPT

5,1 - 327kW 50Hz	PROCESS TEMPERATURES
3,2 - 217kW 50Hz	COMFORT TEMPERATURES







ABOUT DIT

DIT, Franco-Thai manufacturer with more than two decades of experience as an air treatment specialist, leverages its expertise to develop and design products tailored for industrial use in the compressed air field. DIT is constantly focused on achieving optimal performance and possesses several patents, ensuring a leading position in terms of innovation and an ongoing commitment to excellence in performance.

Emboldened by this expertise and in partnership with industry-leading component suppliers renowned for their cost-effective solutions, DIT provides you with a comprehensive selection of the most efficient products available on the market.

Our technical office and commercial team possess the expertise to assist you worldwide with both standard projects and tailor-made solutions. Through valuable suggestions and in response to your preferences, our team excels at identifying the most fitting solutions to meet your specific requirements, enabling you to respond adeptly and globally to address various challenges with precision and expertise.

At DIT, our foremost mission revolves around ensuring client satisfaction. We take great pride in crafting and tailoring solutions that are uniquely designed to meet YOUR specific needs and requirements.

Our new IPT series air-to-water application is a valuable addition to our comprehensive range of industrial process cooling solutions. This line complements a wide array of products, including:

- Water-to-Water industrial process chillers
- · Air-to-Water comfort cooling chillers
- · Water-to-Water comfort cooling chillers
- · Fluid Heat exchangers

We are also offering a large range of equipment's dedicated to compressed air treatment solutions like refrigeration dryers, adsorption dryers, compressed air treatment unit, filtration, drains, oil/water separators and aftercoolers.

Together, these offerings provide a comprehensive suite of compressed air solutions to meet your unique client request with respect of all international standards dedicated to compressed air systems.

YOUR HIGH EFFICIENCY PROCESS PARTNERS

- A model in the industrial refrigeration domain for over 20 years, the IPT R410A was specifically designed and developed to ensure a custom solution for cooling capacity from 5kW to 327kW. Technology, flexibility, efficiency, and reliability are 100% at the industrial core of this new production & product line.
- Air-to-Water chiller water systems with plug and play integration are compact and fully equipped to adapt to even the most demanding user processes. Thanks to its integrated hydraulic kit including the last generation of brazed plate heat exchanger designed for R410A refrigerant & a complete hydraulic circuit in stainless steel, the IPT is the most reliable and secure solution on the market over the years.
- Available in a wide range of versions by offering an unlimited number of configurations, the IPT R410A is your new partner and key asset for all small to medium power industrial applications.



EXPERIENCE UNMATCHED ENERGY EFFICIENCY WITH OUR INDUSTRIAL AIR-TO-WATER CHILLERS

- Our industrial air-to-water chillers are engineered to lead the market in energy efficiency. Designed with the highest Energy Efficiency Ratio (EER), our chillers ensure optimal performance while minimizing operating expenses. By investing in our chillers, you benefit from cutting-edge technology that guarantees reduced energy consumption and significant cost savings. The new IPT R410A series are built with precision and the latest innovations, ensuring that they operate efficiently in a variety of industrial configurations. This means that not only will your energy bills be lower, but your environmental impact will also be significantly reduced. Our design focuses on maximizing energy utilization, ensuring that you get the most out of every unit of energy consumed.
- Additionally, our air-to-water chillers are known for their reliability and durability, requiring less maintenance and proving to be a cost-effective solution in the long run. This translates to fewer disruptions and consistent, reliable cooling performance.
- Choosing our products means you are aligning with a company that prioritizes both technological advancement and environmental sustainability. With our chillers, you don't have to compromise between performance and efficiency; you can have both. Trust our best-in-class technology to deliver superior efficiency and exceptional value, making them the best investment for your business.

EXPERIENCE UNPARALLELED FLEXIBILITY WITH OUR INDUSTRIAL AIR-TO-WATER CHILLERS

- Our industrial air-to-water chillers are engineered with versatility in mind, offering multiple configurations to meet the unique needs of your project. This flexibility allows us to design tailor-made solutions that not only ensure optimal performance but also help contractors save valuable time and money during the installation process.
- With our customizable chillers, you can achieve the perfect fit for your specific application, eliminating the need for extensive modifications and adaptations. This precision in design leads to a smoother installation, reducing labor costs and minimizing potential disruptions. By opting for our chillers, you benefit from a streamlined installation procedure, resulting in faster project completion and significant cost savings.
- Our chillers are built with cutting-edge technology and a focus on efficiency, ensuring they seamlessly integrate into your existing system. The simplified installation process means less time on-site, fewer resources required, and a reduction in overall project complexity. This not only accelerates timelines but also enhances the overall productivity and profitability of the project.
- Choosing our industrial air-to-water chillers means partnering with a company dedicated to innovation and customer satisfaction. Our ability to provide a tailored solution ensures that contractors can trust in our products to deliver exceptional value and reliability from the moment they are installed. Experience the difference that our versatile chiller configurations can make, and let us help you achieve the ultimate efficiency in your cooling solutions.



- Our industrial air-to-water chillers (IPT R410A) are engineered for a diverse range of applications, making them an ideal choice for various industries. Whether you are in manufacturing, food and beverage, pharmaceuticals, data centers, chemical and petrochemical, our chillers provide reliable and efficient cooling solutions tailored to meet your specific needs.
- In the manufacturing sector, our chillers ensure precise temperature control for machinery and processes, enhancing operational efficiency and preventing overheating. For the food and beverage industry, our chillers maintain critical temperature standards for storage and production, helping to preserve product quality and safety. The pharmaceutical industry relies on our chillers for maintaining optimal climate conditions in sensitive production environments, ensuring the integrity of vital pharmaceutical products. Data centers benefit from our chillers' ability to keep servers and IT equipment cool and operational, reducing the risk of downtime caused by overheating. In the chemical and petrochemical industries, our chillers are essential for managing temperatures in complex chemical processes, enhancing safety, and ensuring consistent
- No matter the industry, our industrial air-to-water chillers deliver exceptional reliability, efficiency, and tailored solutions to meet the unique requirements of your operations. Trust our technology to provide consistent and efficient cooling across multiple applications, enhancing productivity and operational efficiency.

product quality.



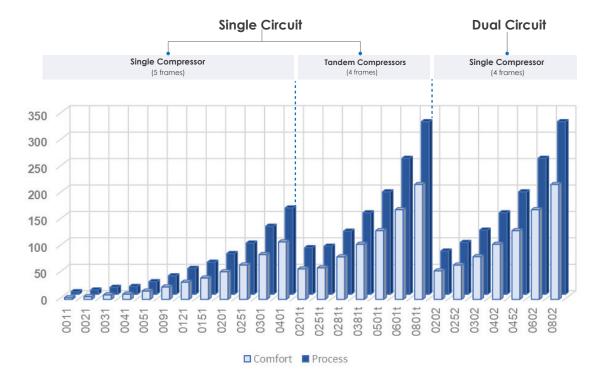






TAILORED SOLUTIONS FOR EVERY COOLING CAPACITY AND CONFIGURATION

We offer customized solutions designed to meet every cooling capacity and configuration requirement, ensuring optimal performance, reliability & safety for your specific needs.



Fans

Low noise fans thanks to the last fan technology available on the market which greatly reduces pressure drop and ensures optimized airflow. The sickle-shaped blades guarantee exemplary performance and reduced noise level. Choice of AC (standard) or EC (optional) motor, All implemented fans contain an IP54 standard protection.

Electronically commutated "EC" motors (optional) allow one to control the fan blade speed and expand the unit's operational range to furthermore improve energy efficiency overall. These motors meet the IE4 efficiency standard. For certain conditions, with low ambient temperature and low fluid temperatures we recommend to use EC fans to stabilize the low operating pressure inside the refrigeration

Structure

The unit was specifically designed to reach optimal cooling while ensuring full component accessibility for ease and safety of maintenance. Easy access to compo-... nents for optimum maintenance is a trademark that applies to all our products, which are designed to be user-friendly and easy to run.

The unit is made of thick galvanized steel and protected with a polyester powder coating to guarantee a long life and weatherproof quality. (Standard RAL 7035, other RAL options available). Each panel is fully and easily removable for component accessibility. Transport and handing of the IPT is easy thanks to its deep steel frame, generous base, and large supports.

Its rainwater holding tank ensures optimal protection of all the unit's components for guaranteed durability.

The vertical design of the IPT R410A saves valuable space and provides the largest refrigeration power per m2.

Electrical panels

The IPT's control panel ensures complete security for all its components thanks to its fully integrated Plug and Play control panel responding to IEC 204-4/EN60204-1 and



Controllers



The standard IPT R410A range is equipped with a state-of-the-art Chiller microprocessor to ensure full control in total security. With its intuitive and user-friendly screen, the microprocessor can simultaneously control up to four compressors on two distinct refrigerant circuits. Fashioned with a range of safety features and possibilities, the IPT offers three-tiered use for limited or modified access in accordance with each user. With the standard microprocessor, there is no need for a driver: a user can use the control valve via a Bluetooth connection and DIT-specific Carel applications to regulate the different parameters.

The c.pCO and "DIT Apps" program option provides the user superior control and monitoring. These functions play the role of conductor to ensure optimal command. Our "DIT Apps" application for the IPT R410A range was developed to guarantee easy access to the diverse parameters of the system while ensuring full protection of the unit (user access, maintenance access, manufacturer access). It allows:

- Management of the control panel for compressor operations
- Management of power distribution
- Total connectivity
- Online implementation of software



Safety measures

The IPT's mechanics and refrigerants are equipped with a range of safety features. It is equally furnished with a permanent operations control thanks to its cutting edge microprocessor technology. This control is permanent and precise throughout the entire application process. This allows IPT to completely adapt its water distribution to your process needs while ensuring an incomparable level of safety. As a standard, all models are equipped with the latest Chiller Carel application and respond to the highest levels of supervision. An advanced control option ensuring optimal unit command is available, thanks to the c.pCO program and "DIT Apps" application.



Respect for environment

The HFC R410a (ODP =0) refrigerant used in IPT meet a wide range of environmental protocols. These consume little energy thanks to their specific density and high heat conductivity, to ensure both low cost and little environmental impact.



Optimal control

Control of the IPT range is ensured by cutting-edge technology of a multi-functional microprocessor which flawlessly manages the different aspects of refrigerant circuits. Standard operation of the unit is easy and intuitive thanks to Chiller's

user-friendly system. An advanced option of the "DIT Apps" application allows for greater control of the IPT R410A range and provides superior energy and safety features in addition to better connectivity



Energy efficiency
Thanks to its new high-performance scroll compressors developed by
Emerson Copeland, an original and patented brazed plate evaporator, and highly efficient components, IPT guarantees superior energy efficiency throughout the entire process. Its easy and limited maintenance makes IPT the best long-term investment on the



FlexibilityThe IPT range is infinitely flexible thanks to a myriad of options and configurations (with more than 5,000) to adapt to each process. Our response fully adapts to your unique operation



Plug and Play

scroll compressor range integrates a hydraulic unit with gauge to display flow rate and strengthen pump protection from low pressure. A Plug and Play solution is one of the many accessories available to all users.



Adaptability

The IPT offers a wide range of operations to adapt to even the most extreme conditions. Thanks to its special battery coating and durable electrical protection, the IPT can easily adjust to corrosion, dust, or any

TECHNOLOGY-PACKED SOLUTION FOR ALL COOLING CAPACITIES

Hydraulic kit & pump

Each IPT is equipped with a patented high-efficiency brazed plate evaporator with large vessel capacity to ensure thermal inertia and instantaneous power on hand. Its oversize volume offsets sudden change of the user process and regulates a constant water temperature.

The IPT hydraulic unit contains a centrifugal pump with pressure of 3 bar for all standard models within the range. These are also equipped with a by-pass valve to ensure water flow during potential operational halts throughout the process. The microprocessor is used to control pump operations and ensures full performance (activation, control, stoppage) along available safety measures. Optional 5 bar pump available and other configurations possible with integrated back-up pressure pump of 3 or 5 bar.

Condensers

The thermal energy battery made of aluminum and copper is designed for industrial application to ensure optimal performance with minimal pressure drop. . Thanks to its vertical paneled structure, this condenser range also ensures minimal shock and blow exposure. Black Epoxy and Electrofin protection treatments are available for more corrosive environments. A range of condenser filters are equally available to respond to heavy dust environments.



Within our chiller system, the stainless steel evaporator stands out as a high-quality component crafted with meticulous attention to detail and precision engineering. Designed for maximum efficiency, the evaporator incorporates advanced heat transfer technology, durable materials, and a sophisticated construction to ensure unparalleled cooling performance, reliability, and longevity, making it an essential element for the seamless operation of our chiller units. Our IPT chillers are equipped with single circuit or dual circuits brazed plate heat exchanger in stainless steel offering a limited pressure drop and giving an unparalleled cooling performance. Utilizing a stainless-steel evaporator (AISI316L) in our chiller system offers numerous advantages, including exceptional durability, corrosion resistance, ease of maintenance, and enhanced thermal conductivity. The use of stainless steel ensures longevity, reliable performance, and improved efficiency, making it a valuable investment in long-term cooling solutions.

Compressors

State-of-the-art industrial compressors ensure optimal performance while remaining 100% energy efficient. The compressor's anti-shock mountings greatly reduce vibrations and protect the refrigerant pipes from bursting. A limited activation current and optional progressive activation allows for gradual growth of refrigerant power. Each refrigerant circuit is equipped with 1 to 2 scroll compressors that are partly operated by the smart microprocessor to ensure optimal energy output. Using the compressor as a sensor, CoreSense Diagnostics enables service technicians to diagnose system and compressor issues with greater accuracy. Additionally, CoreSense Diagnostics also provides compressor and system protection through its proprietary lockout feature.

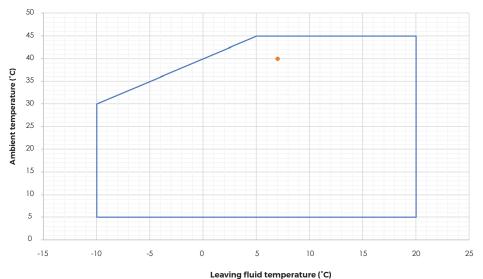
OPERATING LIMITS

- Our range of chillers is meticulously designed to meet diverse cooling needs across various industries, offering a spectrum of solutions that combine cutting-edge technology, exceptional efficiency, and reliable performance to ensure optimal temperature control and operational excellence.
- The IPT represents the perfect solution for all industrial processes that requires leaving fluid temperature from -10°C to +20°C with an ambient temperatures up to +45°C. Nothing can stop an IPT Air-to-Water chiller.



Large Running Conditions (Ambient from + 5°C to +45°C)

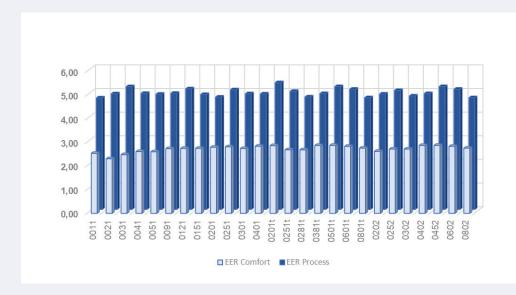
Extended capacities in partial mode (concerns tandem sol.)



Below 6°C leaving fluid temperature - glycol (brine) is compulsory to avoid freezing risks

ENERGY EFFICIENCY RATIO

Whatever the season or the process condition, the new IPT range meets exemplary EER and SEPR standards and goes well beyond the norms of its competitors for any refrigerant power. This new model is the result of DIT's Total Performance strategy which emphasizes the need for complete durability and efficiency (Performance according to the +12/7°C - room temperature +35°C water system.).



EER ProcessConditions

(Average 4,91) (Min. 4,51) (Max. 5,23)

EER Comfort Conditions (Average 2,71) (Min. 2,32)

(Max. 2,90)

SINGLE CIRCUIT

5.1 kW to 163.4 kW

		0011	0021	0031	0041	0051	0091	0121	0151	0201	0251	0301	0401
PERFORMANCES													
Cooling capacity (1)	(kW)	5.1	8.1	13.2	14.9	23.9	35.0	49.1	60.7	77.1	96.9	128.7	163.4
Cooling capacity (1)	(rtons)	1.4	2.3	3.8	4.2	6.8	9.9	13.9	17.3	21.9	27.6	36.6	46.4
Cooling capacity (1)	(Btu/h)	17,265	27,737	45,040	50,670	81,448	119,357	167,400	207,185	263,110	330,671	439,143	557,373
Input power (1)	(kW)	1.1	1.7	2.5	3.0	4.9	7.1	9.6	12.5	16.2	19.1	26.3	33.4
EER (1)	(kW/kW)	4.72	4.89	5.19	4.91	4.88	4.91	5.10	4.86	4.75	5.06	4.90	4.88
Cooling capacity (2)	(kW)	3.2	5.1	8.3	9.9	15.7	23.4	32.5	40.4	52.1	65.0	84.8	108.7
Capacity (2)	(rtons)	0.9	1.4	2.4	2.8	4.5	6.7	9.2	11.5	14.8	18.5	24.1	30.9
Cooling capacity (2)	(Btu/h)	10,885	17,341	28,413	33,743	53,673	79,946	110,724	137,748	177,909	221,823	289,384	370,832
Input power (2)	(kW)	1.3	2.2	3.4	3.8	6.0	8.6	11.8	14.7	18.6	23.1	30.9	38.3
EER (2)	(kW/kW)	2.54	2.31	2.48	2.61	2.60	2.74	2.75	2.75	2.80	2.81	2.74	2.84

REFRIGERANT CIRCUIT

Refrigerant class	(-)	High-density											
Refrigerant type	(-)	A1											
Refrigerant	(-)	R410A											
Gas charge	(kg)	0.8	1	1.5	2.3	2.5	3.6	5	7	9	11	14	17
Teq CO ₂ R410a	(ton)	1.67	2.09	3.13	4.80	5.22	7.52	10.44	14.62	18.79	22.97	29.23	35.50
n# refrigerant circuits	(-)	1	1	1	1	1	1	1	1	1	1	1	1
n# of compressors	(-)	1	1	1	1	1	1	1	1	1	1	1	1
Compressors type	(-)	Rotary	Scroll										

AERAULIC CIRCUIT													
n# of fans	(-)	1	1	1	1	1	2	2	2	2	2	3	3
Fans type	(-)	Axial / AC											
Fans motor details	(-)	4 poles	6 poles	6 poles	6 poles	6 poles							
Fans diameter	(mm)	Ø350	Ø400	Ø400	Ø450	Ø500	Ø450	Ø500	Ø550	Ø710	Ø710	Ø710	Ø710
Fan airflow	(m³/h)	2410	3880	3880	5080	6770	10160	13540	16386	29000	29000	43500	43500

Pump type	(-)	Centrifugal	Centrifuga										
Waterflow (1)	(m³/h)	0.9	1.4	2.3	2.6	4.1	6.0	8.4	10.4	13.3	16.7	22.1	28.1
Waterflow (2)	(m³/h)	0.5	0.9	1.4	1.7	2.7	4.0	5.6	6.9	9.0	11.2	14.6	18.7
Available head pressure (1)	(kPa)	270	240	230	245	225	230	255	240	290	280	240	225
Available head pressure (2)	(kPa)	200	190	220	230	200	200	225	220	260	240	215	195
Buffer tank capacity	(L)	30	30	30	70	70	160	160	160	300	300	450	450
Port type	(-)	Female	Female										
Port reference	(-)	BSPT	BSPT										
Port connection	(inch)	1/2"	1/2"	1/2"	1"	1"	1-1/2"	1-1/2"	1-1/2"	2"	2"	2-1/2"	2-1/2"

ELECTRICAL DATAS

Power supply		230-1-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50
Total power consumption (1) without pump	(kW)	1.0	1.5	2.3	2.8	4.5	6.5	8.7	11.4	14.8	17.4	23.9	30.4
Total absorbed power (1) without pump	(A)	4.6	3.2	4.4	5.5	8.4	13.6	16.7	23.9	27.3	33.6	43.7	54.2
Total power consumption (2) without pump	(kW)	1.1	2.0	3.1	3.4	5.5	7.8	10.7	13.4	17.0	21.0	28.1	34.8
Total absorbed power (2) without pump	(A)	5.3	3.8	5.4	6.3	9.9	15.0	19.8	26.8	30.5	38.0	49.4	60.4
LRA without pump	(A)	25.0	28.0	43.0	55.0	75.0	127.0	153.0	174.0	219.0	272.0	310.0	408.0
Max power consumption	(kW)	1.4	2.9	4.5	4.8	7.7	11.1	14.9	18.2	23.3	28.6	38.7	47.7
Max abosrbed power	(A)	6.6	5.2	8.5	10.3	15.9	20.2	25.8	36.4	42.0	51.8	71.1	88.3

	WEIGHT

Length	(mm)	650	650	650	800	800	990	990	990	990	990	1090	1090
Width	(mm)	830	830	830	980	980	1280	1280	1280	1930	1930	2580	2580
Height	(mm)	1320	1320	1320	1690	1690	2100	2100	2100	2100	2100	2415	2415
Weight - Operating conditions	(kg)	130	140	180	220	270	420	580	720	860	940	1360	1570
Weight - Shipping conditions	(kg)	132	142	182	222	272	422	583	723	863	944	1364	1574

SINGLE CIRCUIT WITH EVEN TANDEM CONFIGURATION

74.8 kW to 326.7 kW

PERFORMANCES								
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Cooling capacity (1)	(kW)	74.8	98.1	119.4	154.2	193.8	257.4	326.7
Cooling capacity (1)	(rtons)	21.3	27.9	33.9	43.8	55.1	73.2	92.9
Cooling capacity (1)	(Btu/h)	255,228	334,799	407,239	526,221	661,341	878,285	1,114,747
Input power (1)	(kW)	14.6	19.5	25.1	31.5	37.3	50.6	69.1
EER (1)	(kW/kW)	5.11	5.03	4.76	4.90	5.20	5.09	4.73
Cooling capacity (2)	(kW)	50.3	64.9	80.4	104.3	130.0	169.6	217.4
Cooling capacity (2)	(rtons)	14.3	18.5	22.9	29.6	37.0	48.2	61.8
Cooling capacity (2)	(Btu/h)	171,528	221,448	274,370	355,818	443,647	578,768	741,663
Input power (2)	(kW)	17.5	23.9	29.9	36.3	45.2	59.8	78.8
EER (2)	(kW/kW)	2.87	2.72	2.69	2.87	2.88	2.83	2.76

REFRIGERANT CIRCUIT										
Refrigerant class	(-)	High-density								
Refrigerant type	(-)	A1								
Refrigerant	(-)	R410A								
Gas charge	(kg)	19	23	28	32	36	44	56		
Teq CO ₂ R410a	(ton)	39.67	48.02	58.46	66.82	75.17	91.87	116.93		
n# refrigerant circuits	(-)	1	1	1	1	1	1	1		
n# of compressors	(-)	2	2	2	2	2	2	2		
Compressors type	(-)	Scroll Tandem								

AERAULIC CIRCUIT										
n# of fans	(-)	2	2	3	3	3	4	4		
Fans type	(-)	Axial / AC								
Fans motor details	(-)	6 poles								
Fans diameter	(mm)	Ø710	Ø710	Ø710	Ø710	Ø710	Ø710	Ø800		
Fan airflow	(m ³ /h)	29000	29000	43500	43500	43500	58000	88000		

HYDRAULIC CIRCUIT										
Pump type	(-)	Centrifugal								
Waterflow (1)	(m³/h)	12.9	16.9	20.5	26.5	33.3	44.3	56.2		
Waterflow (2)	(m³/h)	8.6	11.2	13.8	17.9	22.4	29.2	37.4		
Available head pressure (1)	(kPa)	290	280	240	225	295	265	285		
Available head pressure (2)	(kPa)	260	240	215	195	260	245	265		
Buffer tank capacity	(L)	300	300	450	450	450	600	600		
Port type	(-)	Female								
Port reference	(-)	BSPT								
Port connection	(inch)	2"	2"	2-1/2"	2-1/2"	3"	3"	3"		

ELECTRICAL DATAS								
Power supply		400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50
Total power consumption (1) without pump	(kW)	13.3	17.7	22.8	28.6	33.9	46.0	62.8
Total absorbed power (1) without pump	(A)	26.3	33.6	26.1	52.7	65.3	83.6	112.2
Total power consumption (2) without pump	(kW)	15.9	21.7	27.2	33.0	41.1	54.4	71.6
Total absorbed power (2) without pump	(A)	29.2	39.7	29.0	59.1	74.2	95.1	124.6
LRA without pump	(A)	222.0	306.0	348.0	438.0	544.0	620.0	816.0
Max power consumption	(kW)	22.1	30.1	37.0	45.7	56.3	75.6	97.4
Max abosrbed power	(A)	45.8	51.8	73.7	82.1	101.7	138.4	180.4

DIMENSIONS AND WEIGHT										
Length	(mm)	990	990	1090	1090	990	2000	2000		
Width	(mm)	1930	1930	2580	2580	3300	2140	2140		
Height	(mm)	2100	2100	2415	2415	2150	2500	2500		
Weight - Operating conditions	(kg)	860	940	1360	1570	2000	2400	2600		
Weight - Shipping conditions	(kg)	863	944	1364	1574	2004	2404	2604		

DUAL CIRCUIT

81.8 kW to 326.7 kW

	0202	0252	0302	0402	0452	0602	0802
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PERFORMANCES								
Cooling capacity (1)	(kW)	81.8	98.1	121.4	154.2	193.8	257.4	326.7
Cooling capacity (1)	(rtons)	23.3	27.9	34.5	43.8	55.1	73.2	92.9
Cooling capacity (1)	(Btu/h)	279,250	334,799	414,371	526,221	661,341	878,285	1,114,747
Input power (1)	(kW)	16.8	19.5	25.3	31.5	37.3	50.6	69.1
EER (1)	(kW/kW)	4.88	5.03	4.80	4.90	5.20	5.09	4.73
Cooling capacity (2)	(kW)	53.9	64.9	80.7	104.3	130.0	169.6	217.4
Cooling capacity (2)	(rtons)	15.3	18.5	23.0	29.6	37.0	48.2	61.8
Cooling capacity (2)	(Btu/h)	183,914	221,448	275,496	355,818	443,647	578,768	741,663
Input power (2)	(kW)	20.5	23.9	29.7	36.3	45.2	59.8	78.8
EER (2)	(kW/kW)	2.62	2.72	2.72	2.87	2.88	2.83	2.76

REFRIGERANT CIRC	REFRIGERANT CIRCUIT										
Refrigerant class	(-)	High-density									
Refrigerant type	(-)	A1									
Refrigerant	(-)	R410A									
Gas charge	(kg)	8	12	14	17	19	24	34			
Teq CO ₂ R410a	(ton)	16.70	25.06	29.23	35.50	39.67	50.11	70.99			
n# refrigerant circuits	(-)	2	2	2	2	2	2	2			
n# of compressors	(-)	2	2	2	2	2	2	2			
Compressors type	(-)	Scroll									

AERAULIC CIRCUIT										
n# of fans	(-)	2	2	3	3	3	4	4		
Fans type	(-)	Axial / AC								
Fans motor details	(-)	6 poles								
Fans diameter	(mm)	Ø710	Ø710	Ø710	Ø710	Ø710	Ø710	Ø800		
Fan airflow	(m³/h)	29000	29000	43500	43500	43500	58000	88000		

HYDRAULIC CIRCUIT										
Pump type	(-)	Centrifugal								
Waterflow (1)	(m³/h)	14.1	16.9	20.9	26.5	33.3	44.3	56.2		
Waterflow (2)	(m³/h)	9.3	11.2	13.9	17.9	22.4	29.2	37.4		
Available head pressure (1)	(kPa)	285	280	240	230	295	265	285		
Available head pressure (2)	(kPa)	255	240	215	200	260	245	265		
Buffer tank capacity	(L)	300	300	450	450	450	600	600		
Port type	(-)	Female								
Port reference	(-)	BSPT								
Port connection	(inch)	2"	2"	2-1/2"	2-1/2"	3"	3"	3"		

Power supply		400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50
Total power consumption (1) without pump	(kW)	15.2	17.7	23.0	28.6	33.9	46.0	62.8
Total absorbed power (1) without pump	(A)	31.2	33.6	48.8	52.7	65.3	83.6	112.2
Total power consumption (2) without pump	(kW)	18.7	21.7	27.0	33.0	41.1	54.4	71.6
Total absorbed power (2) without pump	(A)	36.2	39.7	54.5	59.1	74.2	95.1	124.6
LRA without pump	(A)	153.0	153.0	174.0	219.0	544.0	620.0	816.0
Max power consumption	(kW)	26.1	30.1	36.6	45.7	56.3	75.6	97.4
Max abosrbed power	(A)	49.8	51.8	73.7	82.1	101.7	138.4	180.4

DIMENSIONS AND WEIGHT										
Length	(mm)	990	990	1090	1090	990	2000	2000		
Width	(mm)	1930	1930	2580	2580	3300	2140	2140		
Height	(mm)	2100	2100	2415	2415	2150	2500	2500		
Weight - Operating conditions	(kg)	860	940	1360	1570	2000	2400	2600		
Weight - Shipping conditions	(kg)	863	944	1364	1574	2004	2404	2604		

FRAME DETAILS

Single Circuit Single compressors (5 frames)











Single Circuit Tandem compressors (4 frames)









Dual Circuit Single compressors (4 frames)









OPTIONS LIST

Mechanical **Configuration &** options available

- Low noise configuration (reinforced insulation)
 Super low noise configuration (EC fans & soundproof panels)
- Desuperheater configuration
- Low leaving brine temperature insulation
- Fans management by phase cut Fans management by external VSD
- EC fans
- Rubber antivibration pads Protective filters for condensers
- Treatment of condensers
- Compressor suction / discharge valve
- Double safety valves (HP)
- Double safety valves (LP)

Hydraulic circuit **Configuration &** options available

- Paddle type water flow controller
- 350µ water / brine filter
- Electrical tracing on pipes
- Automatic by pass Flanged connections
- Sacrificial anode
- Double pump (MP 1 1 00) Simple pump (LP 1 0 00) Double pump (LP 1 1 00)
 - Simple pump (HP 1 0 00)
 - Double pump (HP 1 1 00)
 - Open expansion tank

 - Closed expansion tank with automatic filling

Control section Configuration & options avaliable

- Advanced controllers c.pCO
- 4G management supervision via Cloud Gate service
- Soft Start compressorsFloating HP
- VSD compressors

SUSTAINABLE AIR & WATER SOLUTIONS FOR INDUSTRIAL APPLICATIONS



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