COOLING 49-1133 kW

HEATING 52-1156 kW

COOLING + HEATING 50-1495 kW

R410A R452B R454B R134a R513A

ENERGY POWER

MULTIFUNCTIONAL UNITS FOR 4-PIPE SYSTEMS

FUJITSU | AIR CONDITIONING

AIRSTAGE

MULTIFUNCTIONAL UNITS FOR 4-PIPE SYSTEMS

LOW GWP REFRIGERANT R452B

LOW GWP REFRIGERANT R454B

LOW GWP REFRIGERANT R513A

INVERTER: PART LOAD EFFICIENCY

INVERTER SCREW COMPRESSORS

EC FANS / EC FANS WITH HIGH AVAILABLE STATIC PRESSURE AND EFFICIENCY

PUMPS

HOT WATER UP TO 55°C

4-PIPES SYSTEMS

MORE COMPACT SYSTEMS, EASIER INSTALLATION

VERSIONS

- Cooling only
- Heating only
- Cooling + Heating

LOW GWP REFRIGERANTS OVERVIEW

SCROLL COMPRESSORS

676 GWP

467 GWP

R452B

R454B

ALTERNATIVE TO

R410A GWP=1.924

SCREW COMPRESSORS

573 GWP

R513A

ALTERNATIVE TO

R134a GWP=1.300

GWP = Global Warming Potential

R452B: THE LOW GWP SUBSTITUTE FOR R410A

-65% GWP

1924 GWP R410A

676 GWP R452B

SOLSTICE® L41Y & OPTEON™ XL55 (DR55)

GWP= Global Warming Potential
ODP= Ozone Depletion Potential

ENVIRONMENTALLY FRIENDLY

- ✓ GWP = 676. 65% LOWER IMPACT ON GLOBAL WARMING THAN R410A
- ✓ ODP = 0. NO IMPACT ON THE OZONE
- ✓ CATEGORY: HFO/HFC BLEND

SAFE AND HIGHLY PERFORMING

- ✓ LOW FLAMMABLE AND NON TOXIC: A2L CLASS
- ✓ COOLING CAPACITY -2% THAN R410A
- ✓ EFFICIENCY (EER) +1% THAN R410A

WIDE APPLICATION

- ✓ HEAT PUMPS
- ✓ LIQUID CHILLERS
- ✓ MULTIFUNCTIONAL UNITS
- ✓ ALSO WITH FREE-COOLING TECHNOLOGY

GWP = Global Warming Potential

R454B

-31% GWP

676 GWP — R452B

467 GWP — R454B

OPTEON™ XL41 (DR5A)

GWP= Global Warming Potential
ODP= Ozone Depletion Potential

ENVIRONMENTALLY FRIENDLY

- ✓ GWP = 467. 31% LOWER IMPACT ON GLOBAL WARMING THAN R452B
- ✓ ODP = 0. NO IMPACT ON THE OZONE
- ✓ CATEGORY: HFO/HFC BLEND

SAFE AND HIGHLY PERFORMING

- ✓ LOW FLAMMABLE AND NON TOXIC: A2L CLASS
- ✓ COOLING CAPACITY -2% THAN R452B
- ✓ EFFICIENCY (EER) -1% THAN R452B

WIDE APPLICATION

- ✓ HEAT PUMPS
- ✓ LIQUID CHILLERS
- ✓ MULTIFUNCTIONAL UNITS
- ✓ ALSO WITH FREE-COOLING TECHNOLOGY

GWP = Global Warming Potential

R513A: THE LOW GWP SUBSTITUTE FOR R134a

-56% GWP

R134a R513A

OPTEON™ XP10

GWP= Global Warming Potential
ODP= Ozone Depletion Potential

ENVIRONMENTALLY FRIENDLY

- ✓ GWP = 573. 56% LOWER IMPACT ON GLOBAL WARMING THAN R134a
- ✓ ODP = 0. NO IMPACT ON THE OZONE
- ✓ CATEGORY: HFO/HFC BLEND

SAFE AND HIGHLY PERFORMING

- ✓ NON FLAMMABLE AND NON TOXIC: A1 CLASS
- ✓ COOLING CAPACITY -2% THAN R134a
- ✓ EFFICIENCY (EER) -1% THAN R134a

WIDE APPLICATION

- ✓ HEAT PUMPS
- ✓ LIQUID CHILLERS
- ✓ MULTIFUNCTIONAL UNITS
- ✓ EXCELLENT FOR INDUSTRIAL PROCESS APPLICATIONS WITH LOW WATER TEMPERATURE
- ✓ ALSO WITH FREE-COOLING TECHNOLOGY

GWP = Global Warming Potential

COMPLIANCE WITH ErP DIRECTIVES

ECODESIGN

The EUROPEAN UNION Regulations designed to precisely determine the **Minimum Energy Efficiency Standards** for **Electric related Products ErP.**
Mandatory compliance for the following standards:

- Main components: fans, pumps, motors.
- Complete units: liquid Chillers / Heat Pumps.

DIFFERENT REGULATIONS AND STANDARDS:

Heat pump units. Regulation n. 813/2013.
Units are compliant with ErP Regulation by exceeding the minimum standards of seasonal energy efficiency in heating, SCOP.

INVERTER CONTROL ON SCREW COMPRESSOR(S)

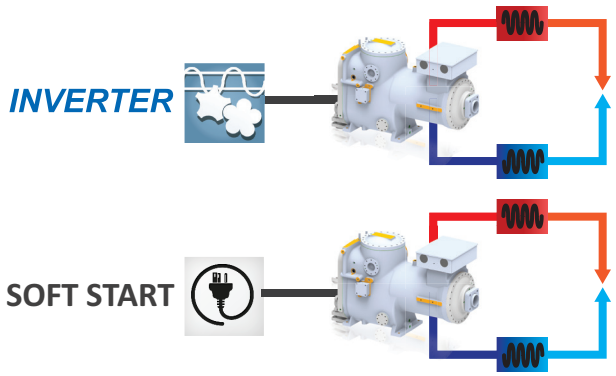
Designed for high temperature applications: high power and efficiency.
Features:

- High efficiency Screw Rotor profile - hyper volumetric efficiency.
- High efficiency motor.
- Capacity control with Stepless regulation.
- ECONOMIZER.
- Low friction components: high reliability and efficiency.
- High performance INTEGRAL OIL SEPARATOR.

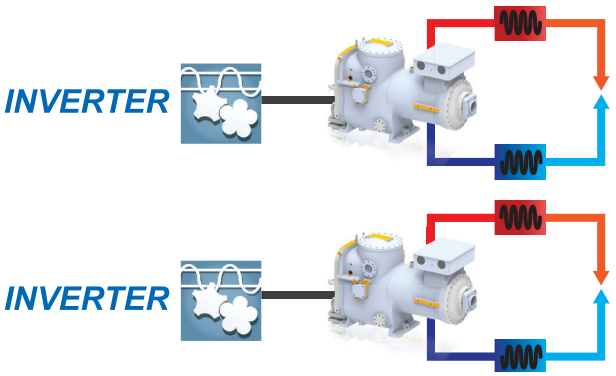
The SCREW compressor can be managed by an INVERTER VARIABLE FREQUENCY DRIVE that electronically modulates the compressor SPEED according to the required cooling load.

Available as options:

II - INVERTER ON ONE COMPRESSOR (+ SOFT START ON OTHER COMPRESSORS)



ID - INVERTER ON ALL COMPRESSORS



- Delivered & absorbed power is PROPORTIONALLY modulated on the compressor with Inverter.
- No step regulation.
- Minimized absorbed power when working at part load.

INVERTER SCROLL COMPRESSOR

TOP SCOP: EFFICIENCY AT PART LOAD

TER: TOTAL EFFICIENCY RATIO

When hot water and chilled water are produced simultaneously, **the real efficiency of the unit is the sum of hot and cold performances.** TER reaches its maximum value in load balancing conditions.

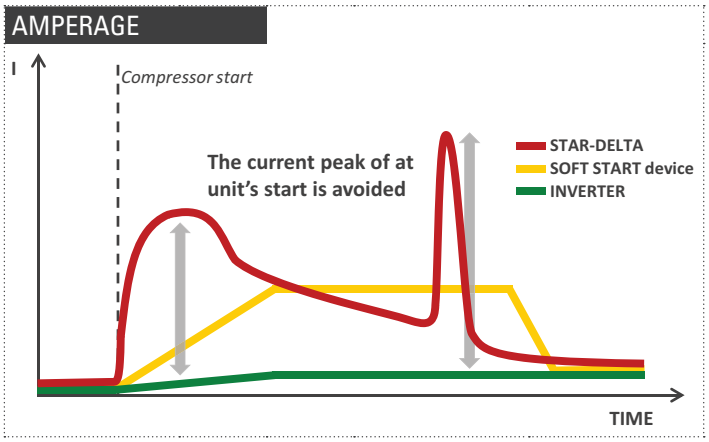
EER UP TO **3,22**

COP UP TO **3,69**

TER UP TO **8,66**

EER, COP are overcome by

$$TER = \frac{\text{Cooling capacity} + \text{Thermal capacity}}{\text{Power input}}$$



NO CURRENT PEAK AT START-UP

- Avoid torque surges.
- Down-size the building's electrical system: save fixed costs charged by utilities.
- Reduce mains and power backup loads.

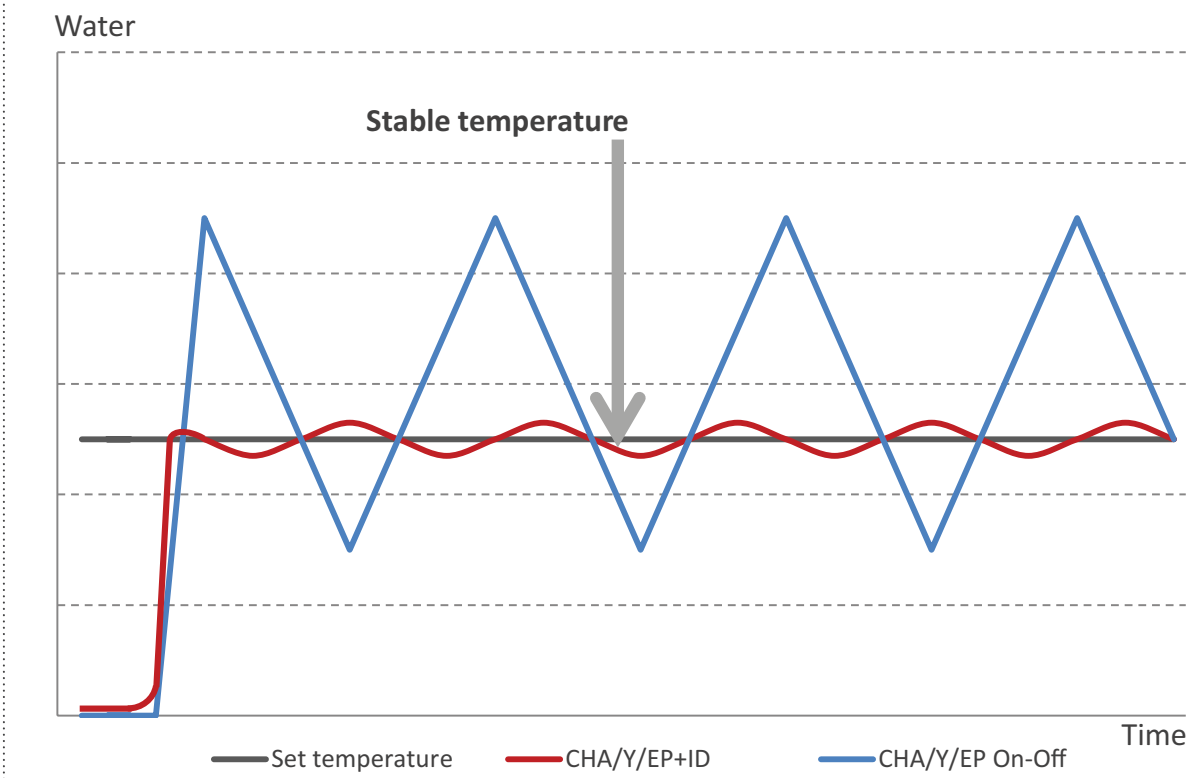
NO CURRENT PEAK

MORE COMFORT

CONSTANT LEVEL OF WATER TEMPERATURE: MORE COMFORT

- Water temperature remains stable.
- No temperature fluctuations.
- More comfort to the final user.

TEMPERATURE FLUCTUATIONS



MULTIFUNCTIONAL OPERATION

SIMULTANEOUS PRODUCTION OF COOLING, HEATING AND DOMESTIC HOT WATER

On complex buildings where there is simultaneous need of cooling and heating, EnergyPower is capable to provide them at the same time with the maximum efficiency in every season of the year.

EnergyPower allows to combine the three contemporary functioning modes – cooling, heating and domestic hot water production – to reach several working configurations.

Working configurations:

❄			COOLING ONLY
	☀		HEATING ONLY
		🚿	DOMESTIC HOT WATER PRODUCTION ONLY
❄	☀		COOLING + HEATING
❄		🚿	COOLING + DOMESTIC HOT WATER PRODUCTION
	☀	🚿	HEATING + DOMESTIC HOT WATER PRODUCTION
❄	☀	🚿	COOLING + HEATING + DOMESTIC HOT WATER PRODUCTION

MULTIFUNCTIONAL OPERATION

MORE COMPACT SYSTEMS, EASIER INSTALLATION

Despite traditional systems, where cooling and heating are provided by two independents units (liquid Chiller and Heat Pump, or liquid Chiller and Boiler) and dedicated piping, EnergyPower centres both sources on one single unit.

The result is a noticeable gain on occupied space on service areas and simplification of system configuration, with reduced on-site operations for installation and maintenance.

SIMULTANEOUS PRODUCTION OF COOLING, HEATING AND DHW

THE HIGHEST ENERGY EFFICIENCY: HEAT RECOVERY

EFFICIENCY AT PART LOAD

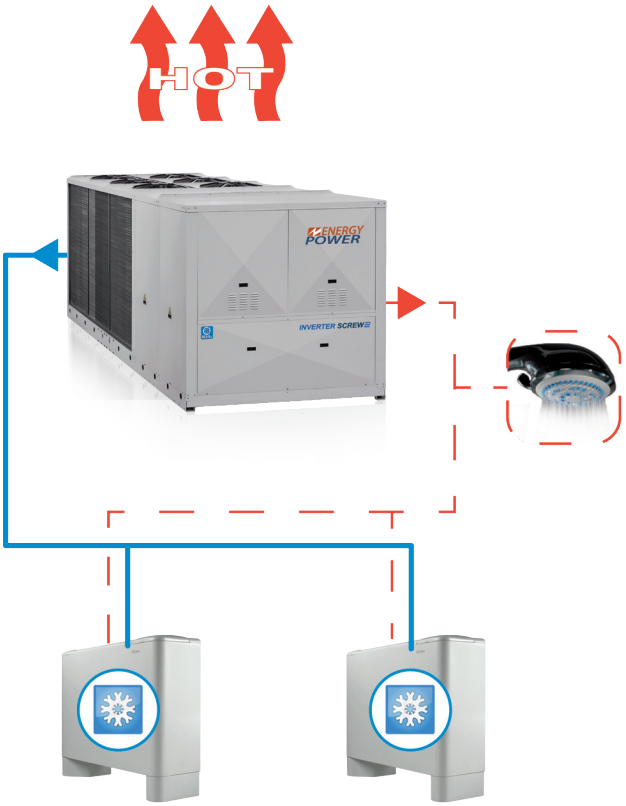
MORE COMPACT SYSTEMS, EASIER INSTALLATION

FULL CONTROL WITH WEB MONITORING

4P SYSTEM MULTIFUNCTIONAL OPERATION

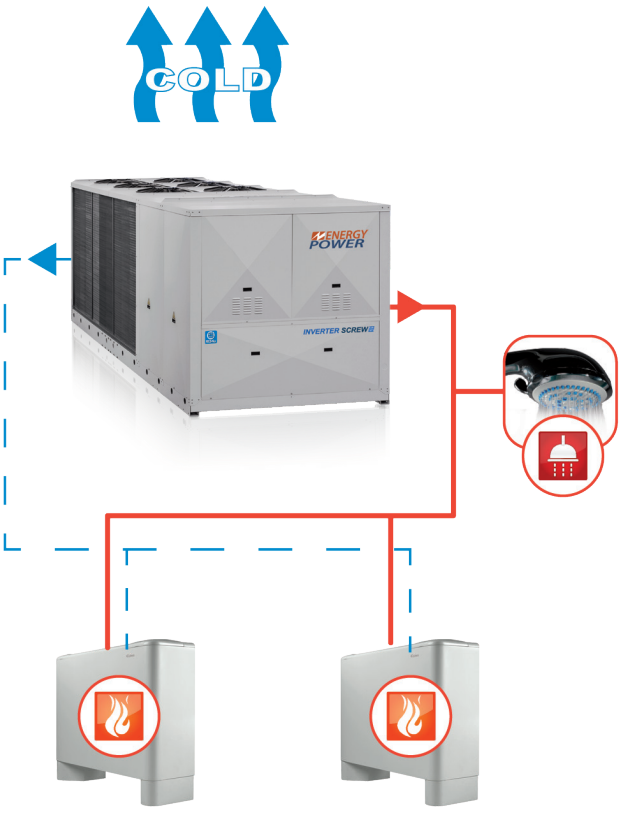
COOLING ONLY

The solenoid valve diverts the condensing part into the finned coil that dissipates warm air to external ambient.



HEATING AND DOMESTIC HOT WATER PRODUCTION

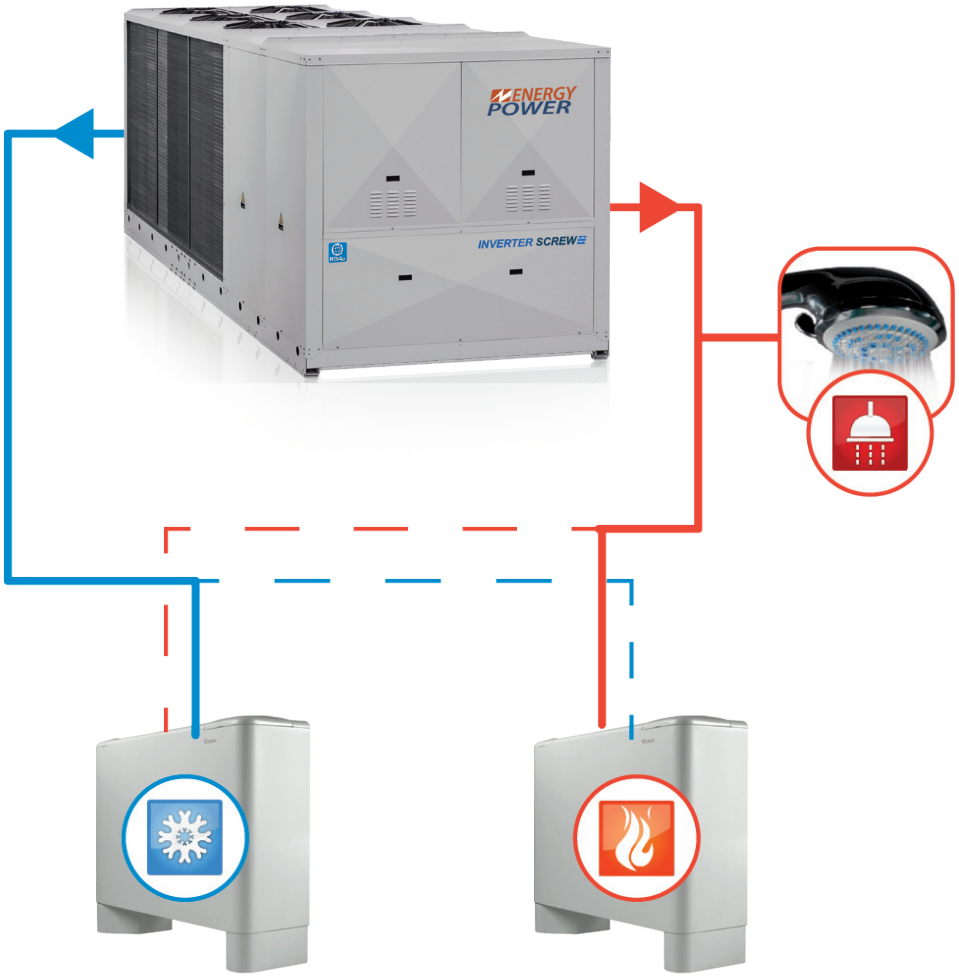
The solenoid valve diverts the evaporation into the finned coil that dissipates cold air to external ambient.



MULTIFUNCTIONAL OPERATION

COOLING, HEATING AND DOMESTIC HOT WATER PRODUCTION

Evaporation and condensation are diverted by the solenoid valve to the two shell and tube exchangers, excluding the external finned coil. The unit evaporates into the cold side of the exchanger and condenses into the hot side of the exchanger.
This way the unit behaves like a watercooled liquid Chiller, allowing to recover the energy produced and using it for the air conditioning of the building, for the production of domestic hot water and for the ambient heating.



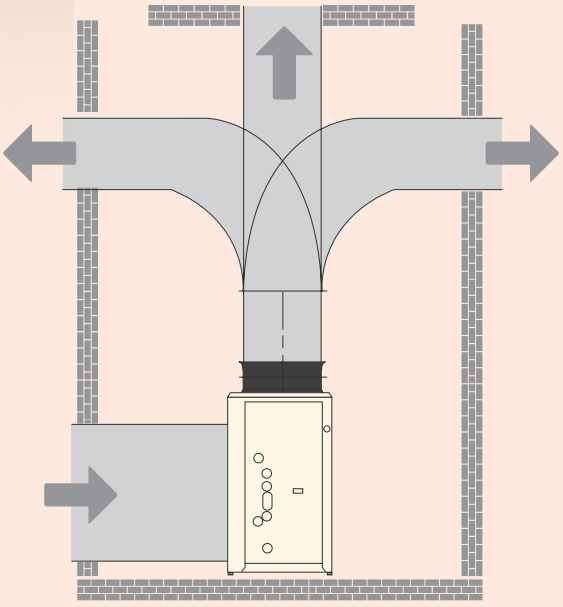
EC INVERTER FANS

EC INVERTER FANS

Fans are electronically controlled by **EC MOTORS** = **Electronically Commutated Motors** that **modulate the airflow regulating the fans speed** proportionally to the required cooling load and according to external air temperature.

SCOP HIGH EFFICIENCY

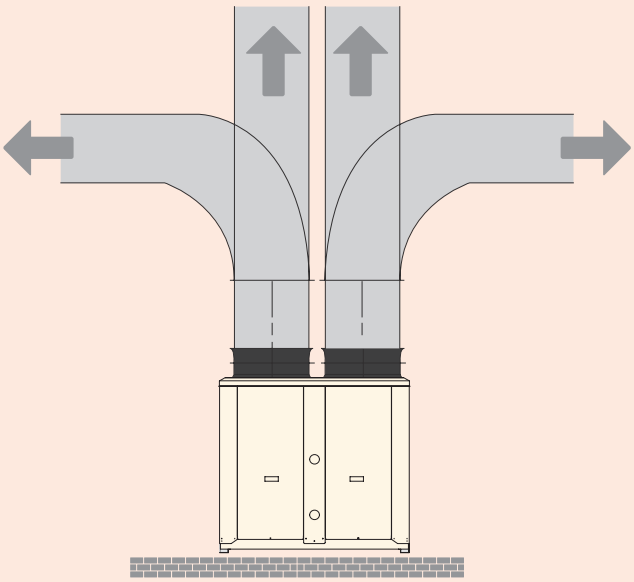
MAXIMUM SILENCE



EC INVERTER FANS WITH HIGH AVAILABLE STATIC PRESSURE

EC INVERTER FANS WITH HIGH AVAILABLE STATIC PRESSURE

EC Inverter fans with SPECIAL TALLER DIFFUSER for higher efficiency and improved available static pressure.

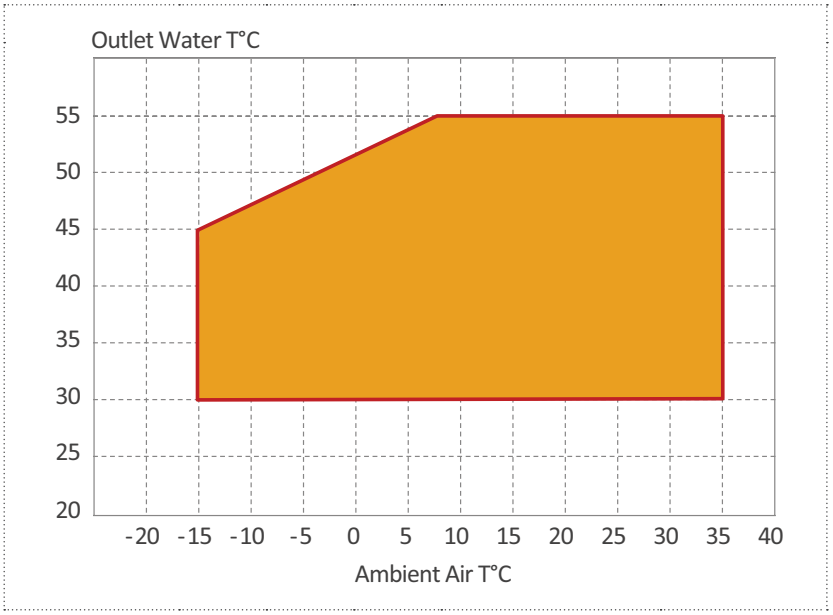


DUCTED INSTALLATION ON DISCHARGE LINE

HIGHER EFFICIENCY

MAXIMUM SILENCE

DOMESTIC HOT WATER UP TO 55°C



ON BOARD CONTROLLER WITH LCD DISPLAY

ON BOARD CONTROLLER WITH LCD DISPLAY

Communication Controller with included Display mounted on unit's door. Coommunication Controller-Display through proprietary device. Connections to peripheral equipment takesplace through a gateway via CANBUS connection.

- 3 levels of access: user – service – manufacturer
- 4 push buttons and digit - icons visualization

WM - WEB MONITORING - WIRELESS REMOTE MONITORING

Web Monitoring is the system for remote monitoring via GPRS/EDGE/3G/TCP-IP protocol. The User/installer can, through a dedicated Web portal, monitor the functioning of the unit visualizing data as:

- Unit Status
- Variables
- Functioning Parameters
- Alarms
- Warning messages
- Statistics on functioning data

The User / Installer receives WARNING e-mails on Alarms and Variables over the range.
The unit is constantly monitored and the User / Installer is promptly informed about its operation without being physically onsite.
Standard on all models.

TOUCH SCREEN
(OPTION)

RANGE OVERVIEW

AIRCOOLED



ENERGY POWER	R410A	CHA/K/EP 182-P÷693-P	CHA/K/EP 604-P÷2406-P	---
	R452B	CHA/G/EP 182-P÷693-P	CHA/G/EP 604-P÷2406-P	---
	R454B	CHA/L/EP 182-P÷693-P	CHA/L/EP 604-P÷2406-P	---
	R134a	---	---	CHA/Y/EP 1352÷4402
	R513A	---	---	CHA/J/EP 1352÷4402

VERSIONS

Cooling only	✓	✓	✓
Heating only	✓	✓	✓
Heating + Domestic hot water production	✓	✓	✓
Cooling + Heating	✓	✓	✓
Cooling + Heating + Domestic hot water production	✓	✓	✓

KEY FEATURES

Models		11	12	10
Cooling (kW)		48.6-190	167-643	278-1133
Heating (kW)		52.2-203	180-693	283-1156
Key features		On-off Scroll compressors	On-off Scroll compressors	INVERTER Screw compressors
		ErP SCOP	ErP SCOP	ErP SCOP
		EUROVENT CERTIFIED PERFORMANCE	EUROVENT CERTIFIED PERFORMANCE	EUROVENT CERTIFIED PERFORMANCE
Hot water up to		55°C	55°C	55°C
Evaporator		Plate	Plate	Shell and tube
Condenser		Plate	Plate	Shell and tube
Air side heat exchanger		Cu/Al	Cu/Al	Cu/Al Microchannel
Cold side pump		✓	✓	✓
Hot side pump		✓	✓	---
Noise levels	Standard	✓	✓	✓
	Silenced	✓	✓	✓
	Super silenced	✓	✓	✓

TECHNICAL DATA

CHA/K/EP 182-P÷693-P

Multifunctional units for 4-Pipe systems with Scroll compressors and plate exchangers

R452B: CHA/G/EP 182-P÷693-P R452B: CHA/L/EP 182-P÷693-P

			182-P	202-P	242-P	262-P	302-P	363-P	393-P	453-P	502-P	603-P	693-P
Cooling only (1)	Cooling capacity	kW	48,6	55,9	63,2	72,2	81,8	92,7	105	118	134	159	190
	Absorbed power	kW	16,8	19,3	21,9	24,4	27,9	32,5	38,0	42,3	46,5	57,4	68,5
	EER		2,89	2,90	2,89	2,96	2,93	2,85	2,76	2,79	2,88	2,77	2,77
Heating only (2)	Heating capacity	kW	52,2	59,7	67,0	75,5	86,0	98,4	111	127	142	171	203
	Absorbed power	kW	16,0	18,7	21,2	23,4	26,5	30,0	35,1	39,5	42,8	52,5	61,2
	COP		3,26	3,19	3,16	3,23	3,25	3,28	3,16	3,22	3,32	3,26	3,32
Cooling + Heating (3)	Cooling capacity	kW	49,6	56,5	62,9	71,8	83,3	94,0	110	126	140	168	203
	Heating capacity	kW	64,9	73,9	82,5	94,1	109	123	143	163	181	217	261
	Absorbed power	kW	15,3	17,4	19,6	22,3	25,2	29,4	32,6	37,2	40,7	49,0	58,4
	TER		7,48	7,49	7,42	7,44	7,63	7,38	7,76	7,77	7,89	7,86	7,95
Length		mm	2350	2350	2350	2350	2350	2350	2350	2350	3550	3550	3550
Width		mm	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
Height		mm	1920	1920	1920	2220	2220	2220	2220	2220	2220	2220	2220

CHA/K/EP 604-P÷2406-P

Multifunctional units for 4-Pipe systems with Scroll compressors and plate exchangers

R452B: CHA/G/EP 604-P÷2406-P R452B: CHA/L/EP 604-P÷2406-P

			604-P	724-P	804-P	904-P	1004-P	1104-P	1206-P	1506-P	1806-P	2006-P	2206-P	2406-P
Cooling only (1)	Cooling capacity	kW	167	190	216	241	264	301	339	395	459	522	583	643
	Absorbed power	kW	57	69	75	85	93	104	114	140	169	193	210	225
	EER		2,93	2,75	2,88	2,84	2,84	2,89	2,97	2,82	2,72	2,70	2,78	2,86
Heating only (2)	Heating capacity	kW	180	204	231	257	281	318	361	427	515	570	632	693
	Absorbed power	kW	55	64	72	79	86	97	109	128	159	168	195	208
	COP		3,25	3,20	3,22	3,25	3,28	3,28	3,31	3,34	3,24	3,39	3,24	3,33
Cooling + Heating (3)	Cooling capacity	kW	170	195	214	243	270	303	334	405	465	543	594	652
	Heating capacity	kW	220	255	281	318	351	396	436	527	613	712	777	849
	Absorbed power	kW	50	60	67	75	81	93	102	122	148	169	183	197
	TER		7,80	7,50	7,39	7,48	7,67	7,52	7,55	7,64	7,28	7,43	7,49	7,62
Length		mm	3350	3350	3350	3350	3350	5000	5000	5000	6200	6200	7200	7200
Width		mm	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200
Height		mm	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100

TECHNICAL DATA

CHA/Y/EP 1352÷4402

INVERTER SCREW*

Multifunctional units for 4-Pipe systems with Inverter Screw compressors and shell and tube exchangers

R513A: CHA/J/EP 1352÷4402

			1352	1402	1602	1802	1952	2302	2702	3302	3902	4402
Cooling only (1)	Cooling capacity	kW	278	312	366	423	484	564	676	822	978	1133
	Absorbed power	kW	89	100	116	133	153	177	210	258	315	365
	EER		3,12	3,12	3,16	3,18	3,16	3,19	3,22	3,19	3,10	3,10
Heating only (2)	Heating capacity	kW	283	320	375	431	490	572	672	838	990	1156
	Absorbed power	kW	86	91	107	122	139	159	190	231	271	313
	COP		3,29	3,52	3,50	3,53	3,53	3,60	3,54	3,63	3,65	3,69
Cooling + Heating (3)	Cooling capacity	kW	276	318	370	429	492	575	686	834	996	1181
	Heating capacity	kW	359	404	469	544	621	726	865	1054	1261	1495
	Absorbed power	kW	83	87	99	115	130	152	179	220	265	314
	TER		7,65	8,30	8,47	8,46	8,56	8,56	8,66	8,58	8,52	8,52
Length		mm	5550	5550	6700	7750	8900	8900	10050	11100	11100	11100
Width		mm	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200
Height		mm	2100	2100	2100	2100	2100	2500	2500	2500	2500	2500

LEGEND

COMPRESSOR

- Scroll compressor
- Inverter Screw compressor

EXCHANGER

- Plate exchanger
- Shell and tube exchanger

SOLUTION

- 4-Pipe system
- Domestic Hot Water

REFRIGERANT

- R410A
- R452B
- R454B
- R134a
- R513A

NOTES

1. Chilled water from 12 to 7 °C, ambient air temperature 35 °C.
2. Heated water from 40 to 45 °C, ambient air temperature 7 °C d.b./6 °C w.b.
3. Chilled water from 12 to 7 °C, heated water from 40 to 45 °C.

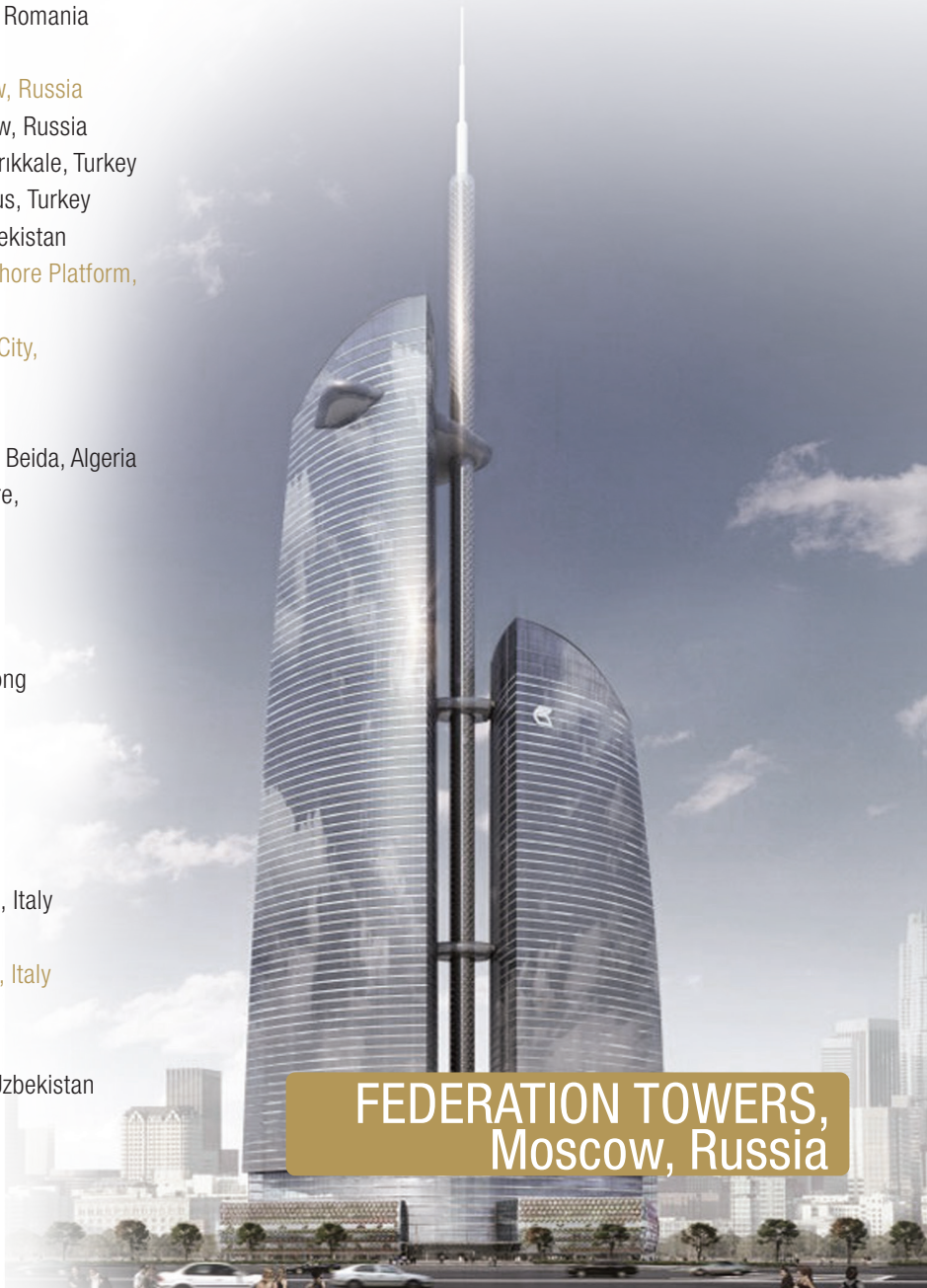
CASE STUDIES

EXPEDITORS, Amsterdam, Netherlands
BAWELSE PARK Multifunctional Centre, Breda, Netherlands
CEA CADARACHE Office Building, Cadarache, France
BRYN EIENDOM - ØSTENSJØVEIEN 34 Business Centre, Oslo, Norway
VOLKSWAGEN Plant, Bratislava, Slovakia
OPERA Business Centre, Bucarest, Romania
SEALYNX Car Components Factory, Darmanesti, Romania
BAT YVA Plant, Moscow, Russia
FEDERATION TOWERS Business Centre, Moscow, Russia
VEREYSKAYA PLAZA III Business Centre, Moscow, Russia
TUPRAS - TURKISH PETROLEUM REFINERIES, Kırıkkale, Turkey
KOLUMAN OTOMOTIV - MERCEDES BENZ, Tarsus, Turkey
UZBAT British American Tobacco, Tashkent, Uzbekistan
QPD – QATAR PETROLEUM DEVELOPMENT Offshore Platform, Qatar
ROWAD National Plastic Factory, Hail Industrial City, Saudi Arabia
NITROKIM Chemical, Tunis, Tunisia
SARL AMOUDA ENGINEERING Cement Factory, El Beida, Algeria
BARROW OXFORD & GLENHOVE Business Centre, Johannesburg, South Africa
AGGREKO Offshore Platform, Singapore
GREEN SMART SHIRTS Garment Company, Gazipur - Dhaka, Bangladesh
WANG CHEONG Building, Sheung Shui, Hong Kong
LSG SKY CHEF - Lufthansa Catering Services, Chep Lap Kok, Hong Kong
LINDT CHOCOLATE Plant, Sidney, Australia

>> INSTITUTIONS AND PUBLIC BUILDINGS.

FLORENCE CHAMBER OF COMMERCE, Florence, Italy
NATO Military Base, Capodichino, Italy
WEDEKIND PALACE - INPS Headquarters, Rome, Italy
MINISTRY OF TREASURY, Rome, Italy
PALACE OF JUSTICE, Pristina, Kosovo
UZBEKISTAN OLYMPIC COMMITTEE, Tashkent, Uzbekistan
MINISTRY OF FINANCE, Baku, Azerbaijian

ESCWA - United Nations Economic and Social Commission for Western Asia, Beirut, Lebanon
NORTH KWAI CUSTOMHOUSE, Sheung Wan, Hong Kong
HO MAN TIN Government Offices, Sheung Shui, Hong Kong
NORTH POINT Government Offices, Kowloon, Hong Kong
NETHERLANDS EMBASSY, Camberra, Australia
MAROOCHYDORE POLICE STATION, Maroochydore, Australia



CULTURAL VILLAGE, Doha, Qatar

MOSE

Venice, Italy

MOSE is one of the greatest engineering projects in the World. It is a system of mobile barriers for the defence of Venice and its lagoon from high tides.
The works have been managed by the Italian Ministry of Infrastructure and Transport – Consorzio Venezia Nuova.
MOSE is an integrated system consisting of 4 rows made of 78 mobile gates installed at lagoon inlets that are able to isolate the Venetian Lagoon temporarily from the Adriatic Sea during high tides. The mobile barriers are connected to concrete housing structures with hinges that constrain the gates to the housing structures and allow them to move. They are located below sea level, lying on the seabed.

The installation is completed with a net of submarine tunnels, service rooms and technological systems for the management of barriers opening and of the whole project overall, that need to be kept at controlled levels of temperature and humidity for their right functioning and protection from salt corrosion.

G.I. INDUSTRIAL HOLDING SpA is providing the units for air conditioning and dehumidification of underwater galleries and technological systems, in partnership with the multinational Company SIRAM SpA – VEOLIA Group, responsible for design and execution of the whole HVAC system.

The units provided under CLINT and NOVAIR brands are:

- 89 Heat Pumps and 60 Fan Coil units: 11.000 kW total cooling power
- 128 Air Handling Units: 870.000 m³/h total air flow.

All units feature special technical solutions and dedicated materials, specifically developed for long resistance in salty environment.

>> SCHOOLS AND UNIVERSITIES.

UNIVERSITA' DEGLI STUDI DI MILANO, Milan, Italy
JAUME I University, Valencia-Castellón, Spain
PARIS X University, Nanterre, France
MILLGATE School, Leicester, United Kingdom
KOC College, Istanbul, Turkey
AUB - AMERICAN UNIVERSITY BEIRUT, Beirut, Lebanon
WITS University - NEW SCIENCE Centre, Johannesburg, South Africa
UKZN University, Durban, South Africa
BRITISH COLUMBIA University, Vancouver, Canada
NANYANG POLYTECHNIC, Nanyang, Singapore
THE HONG KONG POLYTECHNIC University, Kowloon, Hong Kong
SUNSHINE COAST INSTITUTE OF TAFE, Maroochydore, Australia

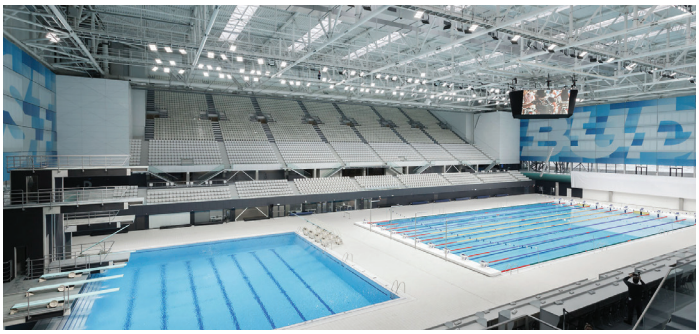
>> SPORT & WELLNESS BUILDINGS.

FRANCHI Stadium, Florence, Italy
PURE GYM, Bristol, United Kingdom
CATEZ Thermal Centre, Brežice, Slovenja
DAGÁLY Swimming Centre - 2017 FINA SWIMMING WORLD CHAMPIONSHIP, Budapest, Hungary
BIALYSTOK Stadium, Bialystok, Poland
FIFA WORLD CUP 2018 FOOTBALL Stadium, Ekaterinburg & Volgograd, Russia
VIVA GYM FOURWAYS, Johannesburg, South Africa
HONG KONG COLISEUM Leisure & Cultural Services, Kowloon, Hong Kong
TONSLEY PARK, Adelaide, Australia
SIDNEY UNIVERSITY SPORTS & AQUATIC CENTRE, Sidney, Australia


TURBOLINE


American University of Beirut


THE HONG KONG POLYTECHNIC UNIVERSITY

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