

IHR PARTNER FÜR

INDUSTRIE- UND

PROZESSKÜHLUNG



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Anwendungsbranchen

- Rechenzentren
- Automobilbranche
- Chemie / Pharmazie
- Landwirtschaft
- Biogas
- Lebensmittel & Getränke
- Winzer / Brennerei
- Luftfahrt
- Maschinenbau
- Kunststoffindustrie



Moderne Kaltwassertechnologie

ist unser Steckpferd

Unser Anspruch ist es, Anlagen anzubieten und auszuliefern, die optimal auf Ihre Bedürfnisse zugeschnitten sind und nicht vom großen Fließband kommen. Unser Partner Hitema produziert jede Anlage als Serienproduktion mit der individuellen technischen Auslegung. Dafür setzen wir auf moderne Kaltwassertechnologie. Uns geht es dabei stets um das gesamte Projekt: Wir sind Ihr Ansprechpartner von der Planung bis zur Umsetzung und Wartung Ihrer Kälteanlage.

Als junges Unternehmen haben wir flexible Strukturen und können schnell für Sie da sein, egal ob Sie ein neues Kältenetz planen oder Hilfe bei einem Kältefall benötigen. Dank unseres großen Lagers können wir eine schnelle Lieferung garantieren und verfügen stets über ein umfangreiches Ersatzteilsortiment. Auch unsere nagelneuen, ausfallsicheren und digitalisierten Mietkälteanlagen mit aktiver Fernwartung sind technisch bestens ausgestattet und können jederzeit und überall eingesetzt werden.

Prozesskühlung

Unsere Kälteanlagen sind speziell auf die hydraulischen Anforderungen der Prozesskühlung abgestimmt. Um Ihnen maximale Energieeffizienz und Leistung zu bieten, haben wir verschiedene Produktserien im Angebot. Sie alle verfügen über eine zielgenaue Temperatursteuerung und eignen sich so zum Beispiel für den Einsatz in der Kunststoffproduktion, Maschinenkühlung, Lebensmittelindustrie, Robotik oder Laserkühlung.

Unser Portfolio

- Kaltwassersätze luft- & wassergekühlt von 2 - 2490 kW mit R410A/R513A/R134A/R1234ze
- Tieftemperatur-Kaltwassersätze von 2 - 60 kW bis -30 °C
- Kaltwassersätze optional mit R32 / R290 / R454B
- Kaltwassersätze mit integrierter Freikühlung
- Rückkühler & Wärmepumpen
- Plattenwärmetauscher
- Rohrleitungsbau
- Luftkühler
- Service deutschlandweit

ENR Serie

- Luftgekühlt
- Kompakte Bauweise
- Speziell für industrielle Prozesskühlung
- Kältemittel R410A und R32
- Interne Pumpe und Tank
- ENRF mit integrierter Freikühlung
- Kostenoptimiert
- Leistungsbereich 3 - 440 kW



Alle Modelle sind mit einem Koaxial- oder Rohr-bündelverdampfer ausgestattet (mit Ausnahme der Modelle 001÷002), der einen zuverlässigen Betrieb insbesondere bei Flüssigkeiten mit Verunreinigungen sicherstellt. Alle Modelle sind optional mit einer Wasserpumpe sowie einem Vorratstank ausgestattet, so dass selbst bei starken prozessbedingten Temperaturschwankungen eine genaue Temperaturkontrolle gewährleistet werden kann.

Mit dem breiten Kühlleistungsbereich von 3 kW bis zu 440 kW ist es möglich, allen Kundenan-sprüchen gerecht zu werden. Das verwendete Kältemittel ist R410A - alternativ R454B oder R32. Die Kühler sind mit einem (Modelle 001÷100) oder zwei (Modelle 130÷480) Kältekreisläufen mit bis zu zwei Kompressoren pro Kreislauf ausgestat-tet, um auch bei Teillast eine hohe Wirksamkeit sicherzustellen.

Die elektrische Schutzklasse ist bei allen Modellen IP54. Dank der Koaxial- und Rohrbündeltechnolo-gie der Verdampfer kann eine hohe Leistung und Zuverlässigkeit der Anlagen in allen industriellen Anwendungen sichergestellt werden.

Optional auch bis -30°C Prozesstemperatur ein-setzbar. Kältemittel R449A oder R455A

Alle Anlagen werden vor Versand im Hitema-Produktionswerk geprüft, um beste Leistung, Zuverlässigkeit und Dauerbetrieb beim Kunden zu gewährleisten. Es wird empfohlen, am Wasser-einlass einen geeigneten Filter zu installieren.

Einer der vielen Vorteile der ENR-Serie ist der geringe Footprint der Anlagen in Bezug auf deren Maße; die Serie ist so gestaltet, dass sie nur einen minimalen Platzbedarf hat.

cool with HITEMA international hitema.com		ENR TABLE 1/3								
Air-cooled liquid chillers ENR series , rotary / scroll compressors, R410A / R32 / R454B refrigerant, brazed plate evaporator, condenser coil with copper tubes and aluminium fins, AC axial fans (from ENR.001 to ENR.004) or EC fans (from ENR.008 to ENR.340). IP54 protection rating, chillers suitable for outdoor installation. Inbuilt water storage tank and single pump P3 as standard. 60Hz version as option.										
Type of available evaporators: B-ES = stainless steel brazed plate evaporator					Type of available expansion elements CP = Capillary tube VTS = Thermostatic expansion valve ETS = Electronic expansion valve (available as option)					
TECHNICAL DATA										
PERFORMANCES		Model	001	002	003	004	008	010	016	022
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	1,6	2,1	3,9	4,7	7,7	9,7	14,4	19,4
TOTAL NOMINAL ABSORBED POWER		kW	0,6	0,8	1,2	1,5	2,7	3,3	5,1	7,6
SEPR (HT) (3)		-	5,10	5,05	5,15	5,07	5,29	5,21	5,04	5,08
NOMINAL WATER FLOW		m3/h	0,3	0,4	0,7	0,8	1,3	1,7	2,5	3,3
MECHANICAL MODE PRESSURE DROPS (4) (5) (6)		kPa	20	22	20	23	19	29	32	31
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1
KIND OF COMPRESSOR	-	ROTARY	ROTARY	ROTARY	ROTARY	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL
KIND OF EVAPORATOR	-	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES
KIND OF EXPANSION ELEMENT	-	CP	CP	CP	CP	VTS	VTS	VTS	VTS	VTS
HYDRAULIC SECTION										
WATER FLOW RANGE (6)	m3/h	0,25÷2,0	0,30÷2,0	0,60÷2,2	0,60÷2,2	1,20÷3,0	1,40÷3,0	1,20÷2,9	3,0÷5,0	
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	0,56	0,56	0,56	0,56	0,98	0,98	0,98	1,28
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	3,46	3,46	3,46	3,46	1,78	1,78	1,78	2,37
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	NA	NA	0,74	0,74	1,10	1,10	1,10	1,47
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	NA	NA	3,22	3,22	2,17	2,17	2,17	2,86
HYDRAULIC CONNECTIONS (THREADED / FLANGED)	BSP / DN	1/2"	1/2"	1/2"	1/2"	1"	1"	1"	1"	1"
TANK VOLUME (5) (8)	dm³3	10	10	25	25	50	50	50	50	270
EXPANSION VESSEL VOLUME (OPTION XV) (9)	liters	NA	NA	NA	NA	5	5	5	5	8
FAN SECTION (AXIAL)										
FANS	nr.	1	1	1	1	1	1	1	1	2
FAN SPEED REGULATION	-	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF
MAXIMUM FANS ABSORBED POWER	AC/EC	kW	0,07	0,11	0,10	0,10	0,62	0,62	1,22	2,44
MAXIMUM FANS ABSORBED CURRENT		A	0,40	0,80	0,50	0,50	2,70	2,70	1,94	3,88
TOTAL AIR FLOW	m3/h	700	650	1800	1800	6452	6452	8688	20437	
TOTAL ELECTRIC DATA										
ELECTRICAL FEED	V/ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	400/3/50/N	400/3/50/N	400/3/50/N	400/3/50	
MAXIMUM ABSORBED CURRENT (F.L.A) (6)	A	2,6	4,0	7,4	8,9	9,6	10,3	12,3	18,2	
MAXIMUM PEAK CURRENT (L.R.A) (6)	A	16,0	21,0	24,0	36,0	35,0	48,0	64,0	101,0	
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)	A	NA	NA	NA	NA	NA	NA	NA	NA	
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)	dB(A)	50,0	50,0	50,1	51,5	52,2	52,2	52,5	55,3	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ) (6) (7)	dB(A)	NA	NA	NA	NA	NA	NA	NA	NA	
DIMENSIONS AND WEIGHT										
LENGTH	mm	445	445	600	600	1010	1010	1010	1610	
WIDTH	mm	440	440	725	725	720	720	720	860	
HEIGHT	mm	806	806	1060	1060	1585	1585	1585	1550	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)	kg	55	55	90	95	250	250	250	375	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)	kg	65	65	115	120	380	380	380	675	
The manufacturer reserves the right to modify specifications without notice.										
Data referred to: (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water (2) Available pressure can be calculated from Hitema Online Selection Software (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator (coaxial evaporator excluded) and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value (4) Pressure drops taken in account: evaporator, valves, piping (5) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change (6) Data referred to standard chiller configuration NP and AC fans or EC fans (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface (8) To avoid excessive start/stop of the compressors a minimum water volume for the entire plant must be guarantee, the tank supplied by Hitema can be not enough (9) The expansion vessel volume is calculated considering 40°C of deltaT between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge and considering only the water volume of the unit										
* For the configuration DPH (double pump P5) the chiller width will be 1305mm ** For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm										
Last update: 25/02/2022 Revision: 00-2022										

cool with HITEMA international hitema.com		ENR TABLE 2/3								
Air-cooled liquid chillers ENR series , rotary / scroll compressors, R410A / R32 / R454B refrigerant, brazed plate evaporator, condenser coil with copper tubes and aluminium fins, AC axial fans (from ENR.001 to ENR.004) or EC fans (from ENR.008 to ENR.340). IP54 protection rating, chillers suitable for outdoor installation. Inbuilt water storage tank and single pump P3 as standard. 60Hz version as option.										
Type of available evaporators: B-ES = stainless steel brazed plate evaporator					Type of available expansion elements CP = Capillary tube VTS = Thermostatic expansion valve ETS = Electronic expansion valve (available as option)					
TECHNICAL DATA										
PERFORMANCES		Model	030	038	045	061	075	090	130	160
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	27,8	34,4	40,6	54,1	68,5	80,2	110,1	134,6
TOTAL NOMINAL ABSORBED POWER		kW	9,3	11,2	13,0	18,4	21,9	25,4	34,0	42,9
SEPR (HT) (3)		-	5,04	5,04	5,05	5,06	5,17	5,25	5,07	5,01
NOMINAL WATER FLOW		m3/h	4,8	5,9	7,0	9,3	11,8	13,8	18,9	23,1
MECHANICAL MODE PRESSURE DROPS (4) (5) (6)		kPa	30	28	31	32	32	33	33	31
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.	1/1/1	1/1/1	1/1/1	2/1/2	2/1/2	2/1/2	4/2/4	4/2/4	
KIND OF COMPRESSOR	-	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	
KIND OF EVAPORATOR	-	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	
KIND OF EXPANSION ELEMENT	-	VTS	VTS	VTS	VTS	VTS	VTS	VTS	VTS	
HYDRAULIC SECTION										
WATER FLOW RANGE (6)	m3/h	4,0÷6,0	5,0÷10,0	6,0÷12,0	8÷18	10÷20	10÷20	14÷27	15÷31	
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	1,28	2,20	2,20	2,53	2,53	2,53	4,56	4,56
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	2,37	4,24	4,24	4,56	4,56	4,56	7,75	7,75
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	1,47	2,94	2,94	6,12	6,12	6,12	10,20	10,20
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	2,32	5,83	5,83	10,40	10,40	10,40	17,40	17,40
HYDRAULIC CONNECTIONS (THREADED / FLANGED)	BSP / DN	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"	DN65	DN65	
TANK VOLUME (5) (8)	dm³	270	270	270	410	410	410	390	390	
EXPANSION VESSEL VOLUME (OPTION XV) (9)	liters	8	8	8	12	12	12	19	19	
FAN SECTION (AXIAL)										
FANS	nr.	2	2	2	2	2	2	3	3	
FAN SPEED REGULATION	-	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	
MAXIMUM FANS ABSORBED POWER	AC/EC	kW	2,44	2,44	2,44	3,98	3,98	3,98	5,97	5,97
MAXIMUM FANS ABSORBED CURRENT		A	3,88	3,88	3,88	6,66	6,66	6,66	9,99	9,99
TOTAL AIR FLOW		m3/h	19817	19300	18679	42973	40480	38541	62798	62798
TOTAL ELECTRIC DATA										
ELECTRICAL FEED	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	
MAXIMUM ABSORBED CURRENT (F.L.A) (6)	A	24,0	28,4	33,9	26,8	31,2	36,7	30,1	34,5	
MAXIMUM PEAK CURRENT (L.R.A) (6)	A	139,0	140,0	174,0	145,7	146,7	180,7	149,0	150,0	
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)	A	NA	NA	NA	117,9	118,7	145,9	121,2	122,0	
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)	dB(A)	54,9	55,8	56,0	58,3	58,8	59,0	60,2	60,8	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ) (6) (7)	dB(A)	54,7	55,3	55,3	58,1	58,3	58,3	59,9	60,1	
DIMENSIONS AND WEIGHT										
LENGTH	mm	1610	1610	1610	2220	2220	2220	3355	3355	
WIDTH	mm	860	860	860	1100	1100	1100	1105*	1105*	
HEIGHT	mm	1550	1550	1550	2120	2120	2120	2205	2205	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)	kg	375	390	410	740	770	785	1190	1260	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)	kg	675	690	710	1160	1190	1205	1610	1695	
The manufacturer reserves the right to modify specifications without notice.					Last update: 25/02/2022 Revision: 00-2022					
Data referred to:										
(1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water										
(2) Available pressure can be calculated from Hitema Online Selection Software										
(3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator (coaxial evaporator excluded) and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value										
(4) Pressure drops taken in account: evaporator, valves, piping										
(5) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change										
(6) Data referred to standard chiller configuration NP and AC fans or EC fans										
(7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface										
(8) To avoid excessive start/stop of the compressors a minimum water volume for the entire plant must be guarantee, the tank supplied by Hitema can be not enough										
(9) The expansion vessel volume is calculated considering 40°C of deltaT between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge and considering only the water volume of the unit										
* For the configuration DPH (double pump P5) the chiller width will be 1305mm										
** For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm										

cool with HITEMA international hitema.com		ENR TABLE 3/3					
Air-cooled liquid chillers ENR series , rotary / scroll compressors, R410A / R32 / R454B refrigerant, brazed plate evaporator, condenser coil with copper tubes and aluminium fins, AC axial fans (from ENR.001 to ENR.004) or EC fans (from ENR.008 to ENR.340). IP54 protection rating, chillers suitable for outdoor installation. Inbuilt water storage tank and single pump P3 as standard. 60Hz version as option.							
Type of available evaporators: B-ES = stainless steel brazed plate evaporator			Type of available expansion elements CP = Capillary tube VTS = Thermostatic expansion valve ETS = Electronic expansion valve (available as option)				
TECHNICAL DATA							
PERFORMANCES		Model	185	200	230	280	340
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	163,6	183,4	205,0	249,0	302,0
TOTAL NOMINAL ABSORBED POWER		kW	49,4	57,8	68,3	88,4	95,8
SEPR (HT) (3)		-	5,56	5,32	5,36	5,41	5,50
NOMINAL WATER FLOW		m3/h	28,1	31,5	35,2	42,8	51,9
MECHANICAL MODE PRESSURE DROPS (4) (5) (6)		kPa	34	30	23	27	30
FRIGORIFIC SECTION							
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.	4/2/4	4/2/4	4/2/4	4/2/4	4/2/4	
KIND OF COMPRESSOR	-	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	
KIND OF EVAPORATOR	-	B-ES	B-ES	B-ES	B-ES	B-ES	
KIND OF EXPANSION ELEMENT	-	VTS	VTS	VTS	VTS	VTS	
HYDRAULIC SECTION							
WATER FLOW RANGE (6)	m3/h	18÷35	25÷46	25÷46	31÷58	38÷70	
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	4,56	8,30	8,30	8,30	8,30
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	7,75	14,10	14,10	14,10	14,10
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	10,20	16,22	16,22	16,22	16,22
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	17,40	26,60	26,60	26,60	26,60
HYDRAULIC CONNECTIONS (THREADED / FLANGED)	BSP / DN	DN65	DN80	DN80	DN100	DN100	
TANK VOLUME (5) (8)	dm³	390	390	500	500	500	
EXPANSION VESSEL VOLUME (OPTION XV) (9)	liters	19	19	19	19	19	
FAN SECTION (AXIAL)							
FANS	nr.	4	4	5	5	6	
FAN SPEED REGULATION	-	ON/OFF	CUT PHASE	CUT PHASE	CUT PHASE	CUT PHASE	
MAXIMUM FANS ABSORBED POWER	AC/EC	kW	7,96	7,96	9,95	9,95	11,94
MAXIMUM FANS ABSORBED CURRENT		A	13,32	13,32	16,65	16,65	19,98
TOTAL AIR FLOW		m3/h	80406	80406	104664	104664	115623
TOTAL ELECTRIC DATA							
ELECTRICAL FEED	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	
MAXIMUM ABSORBED CURRENT (F.L.A) (6)	A	43,3	43,3	53,1	61,3	64,6	
MAXIMUM PEAK CURRENT (L.R.A) (6)	A	187,3	231,9	241,7	288,7	315,3	
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)	A	152,5	186,9	196,7	234,3	253,3	
NOISE DATA							
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)	dB(A)	62,0	62,8	64,1	65,5	65,9	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ) (6) (7)	dB(A)	61,4	61,7	62,8	63,5	64,0	
DIMENSIONS AND WEIGHT							
LENGTH	mm	4355	4355	5350	5350	6350	
WIDTH	mm	1105*	1105**	1105	1105	1105	
HEIGHT	mm	2205	2205	2205	2205	2205	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)	kg	1815	1815	2105	2240	2850	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)	kg	2275	2275	2660	2800	3450	
The manufacturer reserves the right to modify specifications without notice.							Last update: 25/02/2022 Revision: 00-2022
Data referred to:							
(1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water							
(2) Available pressure can be calculated from Hitema Online Selection Software							
(3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator (coaxial evaporator excluded) and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value							
(4) Pressure drops taken in account: evaporator, valves, piping							
(5) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change							
(6) Data referred to standard chiller configuration NP and AC fans or EC fans							
(7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface							
(8) To avoid excessive start/stop of the compressors a minimum water volume for the entire plant must be guarantee, the tank supplied by Hitema can be not enough							
(9) The expansion vessel volume is calculated considering 40°C of deltaT between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge and considering only the water volume of the unit							
* For the configuration DPH (double pump P5) the chiller width will be 1305mm							
** For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm							

Air-cooled liquid chillers **ENR-IR** series for ice-rink application, liquid injection scroll compressors, R449A refrigerant, brazed plate evaporator, condenser coil with copper tubes and aluminium fins, AC axial fans. IP54 protection rating, chillers suitable for outdoor installation.
Inbuilt water storage tank and single pump P3 as standard.

Type of available expansion elements
ETS = Electronic expansion valve (available as option)

Type of available expansion elements
ETS = Electronic expansion valve (available as option)

TECHNICAL DATA

PERFORMANCES

NOMINAL COOLING CAPACITY	EG50% -20°C/25°C @ 15°C (1)	kW	24,4	26,5	32,6	39,1	48,8	53,0	
TOTAL NOMINAL ABSORBED POWER		kW	15,5	17,3	19,6	25,2	29,1	34,6	
SEPR (HT) (3)		-	5,05	5,03	5,07	5,02	5,00	5,00	
NOMINAL WATER FLOW		m³/h	5,2	5,7	6,9	8,3	10,3	11,2	
MECHANICAL MODE PRESSURE DROPS (4) (5) (6)		kPa	25	29	35	32	28	27	

FRIGORIFIC SECTION

COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.	2/2/2	2/2/2	4/2/4	4/2/4	4/2/4	4/2/4	
KIND OF COMPRESSOR	-	SCROLL INJECTION	SCROLL INJECTION	SCROLL INJECTION	SCROLL INJECTION	SCROLL INJECTION	SCROLL INJECTION	
KIND OF EVAPORATOR	-	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	
KIND OF EXPANSION ELEMENT	-	ETS	ETS	ETS	ETS	ETS	ETS	

HYDRAULIC SECTION

WATER FLOW RANGE (6)		m3/h	5,0÷11,0	5,0÷11,0	6,0÷12,0	6,0÷12,0	8,0÷18,0	8,0÷18,0	
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	2,20	2,20	2,53	2,53	2,53	2,53	
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	4,24	4,24	4,56	4,56	4,56	4,56	
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	2,94	2,94	6,12	6,12	6,12	6,12	
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	5,83	5,83	10,40	10,40	10,40	10,40	
HYDRAULIC CONNECTIONS (THREADED / FLANGED)		BSP / DN	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	2"	
TANK VOLUME (5) (8)		dm³	410	410	390	390	390	390	
EXPANSION VESSEL VOLUME (OPTION XV) (9)		liters	12	12	19	19	19	19	

FAN SECTION (AXIAL)

FANS	nr.	2	2	2	3	3	4	
FAN SPEED REGULATION	-	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	CUT PHASE	
MAXIMUM FANS ABSORBED POWER	AC	kW	3,88	3,88	3,88	5,82	5,82	7,76
MAXIMUM FANS ABSORBED CURRENT		A	7,80	7,80	7,80	11,70	11,70	15,60
TOTAL AIR FLOW		m3/h	36000	34000	40000	57000	54000	68800

TOTAL ELECTRIC DATA

ELECTRICAL FEED	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	
MAXIMUM ABSORBED CURRENT (F.L.A) (6)	A	57,0	62,0	83,8	93,0	106,2	120,0	
MAXIMUM PEAK CURRENT (L.R.A) (6)	A	173,5	205,0	166,0	191,8	222,7	263,0	
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)	A	145,7	171,4	146,0	168,2	194,9	229,4	

NOISE DATA

SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)	dB(A)	61,4	61,8	60,9	62,3	63,6	64,7	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ) (6) (7)	dB(A)	59,7	59,9	59,5	61,0	61,6	62,7	

DIMENSIONS AND WEIGHT

LENGTH	mm	2220	2220	3355	3355	3355	4355	
WIDTH	mm	1100	1100	1105*	1105*	1105*	1105**	
HEIGHT	mm	2120	2120	2205	2205	2205	2205	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)	kg	770	785	1190	1260	1320	1815	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)	kg	1190	1205	1610	1695	1760	2275	

Last update:	07/10/2021
Revision:	04-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperature = -20/-25 °C, ambient temperature = +15°C, fluid = EG50%
- (2) Available pressure can be calculated from Hitema Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator (coaxial evaporator excluded) and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR values
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
- (6) Data referred to standard chiller configuration WP (single pump P3) and AC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- (8) To avoid excessive start/stop of the compressors a minimum water volume for the entire plant must be guarantee, the tank supplied by Hitema can be not enough
- (9) The expansion vessel volume is calculated considering 40°C of deltaT between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge and considering only the water volume of the unit

* For the configuration DPH (double pump P5) the chiller width will be 1305mm

** For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm

SBS Serie

- Luftgekühlt
- Energieeffizient
- Industrielle Prozesskühlung & Klimatisierung
- Kältemittel R410A ,R454B und R32
- Leistungsbereich 94 - 1349 kW
- SBSF mit integrierter Freikühlung
- Frei konfigurierbar
- Kostenoptimiert



Alle Modelle sind mit einem gelötetem Plattenverdampfer oder Rohrbündelverdampfer ausgestattet. Der Rohrbündel sorgt für einen zuverlässigen Betrieb insbesondere bei Flüssigkeiten, die Verunreinigungen enthalten. Auf Anfrage können alle Modelle mit einer Wasserpumpe, sowie einem Vorratstank ausgestattet werden, so dass selbst bei starken prozessbedingten Temperaturschwankungen eine genaue Temperaturkontrolle gewährleistet werden kann.

Mit dem breiten Kühlleistungsbereich von 94 kW bis zu 1349 kW ist es möglich, allen Kundenansprüchen gerecht zu werden. Das verwendete Kältemittel ist R410A - alternativ R454B oder R32. Die Kühler sind mit einem (Modell SBS.095-160) oder zwei (Modelle SBS.190÷1030) oder drei (Modelle SBS.1230÷1360) Kältekreisläufen mit bis zu drei Kompressoren pro Kreislauf ausgestattet, um auch bei Teillast eine hohe Wirksamkeit sicherzustellen.

Die elektrische Schutzklasse ist bei allen Modellen IP54. Alle Anlagen werden vor Versand im Hitema-Produktionswerk geprüft, um beste Leistung, Zuverlässigkeit im Dauerbetrieb beim Kunden zu gewährleisten. Wir empfehlen, am Wassereinlass einen geeigneten Filter zu installieren.

cool with HITEMA international hitema.com		SBS TABLE 1/2								
Air-cooled liquid chillers SBS series , scroll compressors, R454B,R32,R410A refrigerant, brazed plate / shell and tube evaporator, condenser coil with copper tubes and aluminium fins, EC axial fans. Electrical feed 400V/3ph/50Hz (60Hz version as option). IP54 protection rating, chillers suitable for outdoor installation. Inbuilt water storage tank and single pump P3 as option. Microchannel condenser coils as option.										
Type of available evaporators: ST = shell and tube evaporator, with high thickness copper tubes (0,41mm) B-ES = stainless steel brazed plate evaporator					Type of available expansion elements: VTS = Thermostatic expansion valve ETS = Electronic expansion valve (available as option)					
TECHNICAL DATA										
PERFORMANCES		Model	095	120	145	190	240	290	330	380
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	85,2	107,2	129,9	170,4	215,4	274,2	305,9	343,6
TOTAL NOMINAL ABSORBED POWER		kW	26,0	33,7	43,8	52,0	67,4	84,6	93,0	106,4
SEPR (HT) (3)		-	5,71	5,51	5,24	5,66	5,25	5,70	5,66	5,51
NOMINAL WATER FLOW		m3/h	14,6	18,4	22,3	29,3	37,0	47,1	52,6	59,0
MECHANICAL MODE PRESSURE DROPS (4) (5) (6)		kPa	38	42	29	37	41	33	30	32
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.	2/1/2	2/1/2	2/1/2	4/2/4	4/2/4	4/2/4	4/2/4	4/2/4	4/2/4
KIND OF EXPANSION ELEMENT	-	VTS	VTS	VTS	VTS	VTS	VTS	VTS	VTS	VTS
KIND OF EVAPORATOR	-	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES
HYDRAULIC SECTION										
WATER FLOW RANGE (6)	m3/h	13,0÷23,0	16,0÷23,0	16,0÷42,0	23,0÷42,0	29,0÷53,0	36,0÷66,0	38,0÷70,0	47,0÷87,0	
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	3,46	4,56	4,56	8,30	8,30	8,30	8,30	10,20
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	6,33	7,75	7,75	14,10	14,10	14,10	14,10	17,40
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	6,12	10,20	10,20	16,22	16,22	16,22	16,22	24,85
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	10,40	17,40	17,40	26,60	26,60	26,60	26,60	42,40
HYDRAULIC CONNECTIONS (FLANGED/VICTAULIC) (8)	DN	DN50	DN65	DN80	DN80	DN80	DN100	DN100	DN100	DN100
TANK VOLUME (5) (9)	dm³3	150	150	150	300	300	300	300	380	380
EXPANSION VESSEL NUMBER x VOLUME (OPTION XV) (10)	liters	1x8	1x8	1x8	1x19	1x19	1x19	1x19	1x19	1x19
FAN SECTION (AXIAL)										
FANS	nr.	2	2	2	4	4	6	6	6	6
MAXIMUM FANS ABSORBED POWER	AC	kW	3,68	3,68	3,68	7,36	7,36	11,04	11,04	11,04
MAXIMUM FANS ABSORBED CURRENT		A	7,66	7,66	7,66	15,32	15,32	22,98	22,98	22,98
TOTAL AIR FLOW		m3/h	41200	41200	41200	82400	82400	123600	123600	123600
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A) (6)	A	50,9	66,5	75,1	101,7	132,9	157,8	180,8	203,8	203,8
MAXIMUM PEAK CURRENT (L.R.A) (6)	A	201,3	248,1	251,4	252,1	314,5	334,1	461,6	484,6	484,6
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)	A	166,9	205,9	209,4	217,7	272,3	292,1	396,4	419,4	419,4
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)	dB(A)	57,5	59,5	61,5	60,5	62,6	65,1	65,1	65,1	65,1
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (6) (7)	dB(A)	56,5	57,5	58,5	59,5	60,5	62,6	62,6	62,6	62,6
SOUND PRESSURE FOR SUPER LOW NOISE OPTION (SLN) (6) (7)	dB(A)	54,0	55,5	57,1	57,0	58,6	60,9	60,9	60,9	60,9
SOUND PRESSURE FOR EXTRA LOW NOISE OPTION (ELN) (6) (7)	dB(A)	53,5	54,5	55,5	56,5	57,5	59,6	59,6	59,6	59,6
DIMENSIONS AND WEIGHT										
LENGTH	mm	1610	1610	1610	2910	2910	4210	4210	4210	4210
WIDTH	mm	2210	2210	2210	2210	2210	2210	2210	2210	2210
HEIGHT	mm	2500	2500	2500	2500	2500	2500	2500	2500	2500
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)	kg	1030	1200	1250	1900	2220	2740	2740	2850	2850
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)	kg	1050	1225	1280	1950	2290	2840	2840	2950	2950
The manufacturer reserves the right to modify specifications without notice.										
Last update: 22/02/2022 Revision: 00-2022										
Data referred to: (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water (2) Available pressure can be calculated from Hitema Online Selection Software (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value (4) Pressure drops taken in account: evaporator, piping (5) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change (6) Data referred to standard chiller configuration NP (no pump) and AC fans (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface (8) Flanged connections with one of next options: Pump, Double pump, Tank. Flanged connections standard for models 095÷160 (9) To avoid excessive start/stop of the compressors a minimum water volume for the entire plant must be guarantee, the tank supplied by Hitema can be not enough (10) The expansion vessel volume is calculated considering 50°C of deltaT between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge and considering only the water volume of the unit										
** pump P5 includes the soft start (SF) option										

cool with HITEMA international hitema.com		SBS TABLE 2/2								
Air-cooled liquid chillers SBS series , scroll compressors, R454B,R32,R410A refrigerant, brazed plate / shell and tube evaporator, condenser coil with copper tubes and aluminium fins, EC axial fans. Electrical feed 400V/3ph/50Hz (60Hz version as option). IP54 protection rating, chillers suitable for outdoor installation. Inbuilt water storage tank and single pump P3 as option. Microchannel condenser coils as option.										
Type of available evaporators: ST = shell and tube evaporator, with high thickness copper tubes (0,41mm) B-ES = stainless steel brazed plate evaporator					Type of available expansion elements: VTS = Thermostatic expansion valve ETS = Electronic expansion valve (available as option)					
TECHNICAL DATA										
PERFORMANCES			Model	430	470	530	570	610	660	720
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)		kW	397,3	423,6	461,3	495,6	541,8	573,6	603,8
TOTAL NOMINAL ABSORBED POWER			kW	120,1	133,6	147,0	161,4	169,7	181,2	193,8
SEPR (HT) (3)			-	5,86	5,80	5,68	5,52	5,73	5,70	5,61
NOMINAL WATER FLOW			m3/h	68,2	72,8	79,3	85,1	93,1	98,5	103,7
MECHANICAL MODE PRESSURE DROPS (4) (5) (6)			kPa	35	49	60	38	44	45	48
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP		nr.	6/2/4	6/2/4	6/2/4	6/2/4	6/2/4	6/2/4	6/2/4	6/2/4
KIND OF EXPANSION ELEMENT		-	VTS	ETS	ETS	ETS	ETS	ETS	ETS	ETS
KIND OF EVAPORATOR		-	B-ES	ST	ST	ST	ST	ST	ST	ST
HYDRAULIC SECTION										
WATER FLOW RANGE (6)		m3/h	60,0÷110,0	62,0÷120,0	62,0÷120,0	79,0÷145,0	81,0÷150,0	81,0÷150,0	86,0÷161,0	
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	10,20	10,20	16,22	16,22	16,22	16,22	16,22	16,22
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	17,40	17,40	26,60	26,60	26,60	26,60	26,60	26,60
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	24,85	24,85	24,85	31,88	31,88	31,88	31,88	39,09
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	42,40	42,40	42,40	53,50	53,50	53,50	53,50	65,60
HYDRAULIC CONNECTIONS (FLANGED/VICTAULIC) (8)		DN	DN125	DN125	DN125	DN150	DN150	DN150	DN150	DN150
TANK VOLUME (5) (9)		dm³	380	380	500	500	500	500	500	500
EXPANSION VESSEL NUMBER x VOLUME (OPTION XV) (10)		liters	1x19	1x19	2x19	2x19	2x19	2x19	2x19	2x19
FAN SECTION (AXIAL)										
FANS		nr.	8	8	8	8	10	10	10	10
MAXIMUM FANS ABSORBED POWER	AC	kW	14,72	14,72	14,72	14,72	18,40	18,40	18,40	18,40
MAXIMUM FANS ABSORBED CURRENT		A	30,64	30,64	30,64	30,64	38,30	38,30	38,30	38,30
TOTAL AIR FLOW		m3/h	164800	164800	164800	164800	206000	206000	206000	206000
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A) (6)		A	232,8	255,8	278,8	301,8	331,1	352,7	374,3	
MAXIMUM PEAK CURRENT (L.R.A) (6)		A	409,1	536,6	559,6	582,6	601,1	622,7	613,3	
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)		A	367,1	471,4	494,4	517,4	535,9	557,5	554,3	
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)		dB(A)	66,6	66,6	66,6	66,6	68,1	69,0	69,8	
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (6) (7)		dB(A)	64,1	64,1	64,1	64,1	65,3	65,9	66,4	
SOUND PRESSURE FOR SUPER LOW NOISE OPTION (SLN) (6) (7)		dB(A)	62,4	62,4	62,4	62,4	63,9	64,6	65,3	
SOUND PRESSURE FOR EXTRA LOW NOISE OPTION (ELN) (6) (7)		dB(A)	61,1	61,1	61,1	61,1	62,3	62,9	63,4	
DIMENSIONS AND WEIGHT										
LENGTH		mm	5900	5900	5900	5900	7200	7200	7200	
WIDTH		mm	2210	2210	2210	2210	2210	2210	2210	
HEIGHT		mm	2500	2500	2500	2500	2500	2500	2500	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)		kg	3900	3900	3950	4050	4900	4900	4900	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)		kg	4000	4000	4070	4180	5070	5070	5070	
The manufacturer reserves the right to modify specifications without notice.							Last update: 22/02/2022 Revision: 00-2022			
Data referred to: (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water (2) Available pressure can be calculated from Hitema Online Selection Software (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value (4) Pressure drops taken in account: evaporator, piping (5) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change (6) Data referred to standard chiller configuration NP (no pump) and AC fans (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface (8) Flanged connections with one of next options: Pump, Double pump, Tank. Flanged connections standard for models 095÷160 (9) To avoid excessive start/stop of the compressors a minimum water volume for the entire plant must be guarantee, the tank supplied by Hitema can be not enough (10) The expansion vessel volume is calculated considering 50°C of deltaT between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge and considering only the water volume of the unit ** pump P5 includes the soft start (SF) option										

ISV/ISVF Serie

- Luftgekühlt
- Frei konfigurierbar
- Energieeffizient
- Industrielle Prozesskühlung und Klimatisierung
- Kältemittel R134 A, R513 A oder R1234ze
- Leistungsbereich von 300 - 1390 kW
- ISVF mit integrierter Freikühlung
- Kostenoptimiert



ISV Serie: Luftgekühlte Flüssigkeitskühler mit frequenzgeregelten Schrauben-Verdichtern; Axiallüftern und Rohrbündelwärmetauscher. Kühlleistung von 300-1390 kW (Wasservorlauf +7°C Wasser Rücklauf +12°C, 35°C Umgebungstemperatur).

ISVF Serie: Luftgekühlter Flüssigkeitskühler mit Freikühloption, frequenzgeregelten Schraubenverdichtern, Axiallüftern und Rohrbündelverdampfer. Kühlleistung von 300 - 912 kW (Wasservorlauf +7°C Wasser Rücklauf +12°C, 35°C Umgebungstemperatur).

Alle Modelle sind mit einem Rohrbündelverdampfer ausgestattet. Diese Verdampfertechnologie gewährleistet einen zuverlässigen Betrieb insbesondere bei Flüssigkeiten, die Schmutz oder Verunreinigungen enthalten. Alle Modelle können auf Wunsch mit einer Pumpe ausgestattet werden, die für den Betrieb mit einem Wasser/ Glykol Gemisch geeignet ist.

Mit dem großen Kühlleistungsbereich und einer Vielzahl an verschiedenen Optionen, ist es möglich, allen Kundenanforderungen gerecht zu werden. Als Kältemittel setzen wir R134 A, R513 A oder R1234ze ein.

cool with HITEMA international hitema.com		ISV TABLE 1/2								
Air-cooled liquid chillers <u>ISV series</u> , inverter screw compressors, R134A / R513A / R1234ze refrigerant, shell and tube evaporator, brazed plate economizer, condenser coil with copper tubes and aluminium fins, EC axial fans r. Electrical feed 400V/3ph/50Hz (60Hz version as option). IP54 protection rating, chillers suitable for outdoor installation. Additional modules (2 fans) can be added to improve efficiency (before the order). Inbuilt water storage tank and single pump P3 as option. Microchannel condenser coils as option.										
Type of available evaporators: ST = shell and tube evaporator, with high thickness copper tubes (0,41mm) B-ES = stainless steel brazed plate evaporator				Type of available expansion elements: ETS = Electronic expansion valve (available as option)						
TECHNICAL DATA										
PERFORMANCES		Model	300	350	390	440	480	520	600	680
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	300,0	351,0	392,0	441,0	483,0	525,0	608,0	681,0
TOTAL NOMINAL ABSORBED POWER		kW	84,1	100,9	115,8	126,1	143,5	159,8	175,0	205,9
SEPR (HT) (3)		-	5,04	5,01	5,04	5,55	5,54	5,52	5,57	5,55
NOMINAL WATER FLOW		m3/h	51,5	60,3	67,3	75,8	83,0	90,2	104,5	117,0
MECHANICAL MODE PRESSURE DROPS (4) (5) (6)		kPa	58	58	58	53	53	61	49	48
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / CAPACITY CONTROL	nr.	1/1/27÷108%	1/1/25÷100%	1/1/20÷101%	1/1/20÷100%	1/1/16÷102%	1/1/16÷100%	2/2/26÷102%	2/2/25÷100%	
KIND OF EXPANSION ELEMENT	-	ETS	ETS	ETS	ETS	ETS	ETS	ETS	ETS	
KIND OF EVAPORATOR	-	ST	ST	ST	ST	ST	ST	ST	ST	
ECONOMIZER		NO	YES	NO	YES	NO	YES	NO	YES	
TYPE OF ECONOMIZER	type	plate	plate	plate	plate	plate	plate	plate	plate	
HYDRAULIC SECTION										
WATER FLOW RANGE (6)	m3/h	36,0÷72,0	42,0÷80,0	42,0÷84,0	52,0÷105,0	57,0÷113,0	57,0÷113,0	68,0÷137,0	81,0÷162,0	
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	8,30	8,30	10,20	10,20	10,20	16,22	16,22	16,22
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	14,10	14,10	17,40	17,40	17,40	26,60	26,60	26,60
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	16,22	16,22	24,85	24,85	24,85	24,85	31,88	31,88
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	26,60	26,60	42,40	42,40	42,40	42,40	53,50	53,50
HYDRAULIC CONNECTIONS (FLANGED/VICTAULIC) (8)	DN	DN100	DN100	DN100	DN125	DN125	DN125	DN125	DN150	
TANK VOLUME (5) (9)	dm³	380	380	380	500	500	500	500	500	
EXPANSION VESSEL NUMBER x VOLUME (OPTION XV) (10)	liters	1x19	1x19	1x19	2x19	2x19	2x19	2x19	2x19	
FAN SECTION (AXIAL)										
FANS	nr.	6	6	6	8	8	8	10	10	
MAXIMUM FANS ABSORBED POWER	EC	kW	11,04	11,04	11,04	14,72	14,72	14,72	18,40	18,40
MAXIMUM FANS ABSORBED CURRENT		A	22,98	22,98	22,98	30,64	30,64	30,64	38,30	38,30
TOTAL AIR FLOW		m3/h	123600	123600	123600	164800	164800	164800	206000	206000
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A) (6)	A	243,0	243,0	283,0	290,6	370,6	370,6	418,3	478,3	
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)	dB(A)	68,6	68,6	69,5	69,7	70,6	70,6	71,5	71,5	
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (6) (7)	dB(A)	64,9	64,9	65,6	66,1	66,8	66,8	67,6	67,6	
SOUND PRESSURE FOR SUPER LOW NOISE OPTION (SLN) (6) (7)	dB(A)	64,0	64,0	64,8	65,1	66,0	66,0	66,8	66,8	
SOUND PRESSURE FOR EXTRA LOW NOISE OPTION (ELN) (6) (7)	dB(A)	61,9	61,9	62,6	63,1	63,8	63,8	64,6	64,6	
DIMENSIONS AND WEIGHT										
LENGTH	mm	4600	4600	4600	5900	5900	5900	7200	7200	
WIDTH	mm	2210	2210	2210	2210	2210	2210	2210	2210	
HEIGHT	mm	2450	2450	2450	2450	2450	2450	2450	2450	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)	kg	3050	3100	3200	3600	3670	3750	5200	5250	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)	kg	3180	3250	3370	3780	3850	3930	5500	5600	
The manufacturer reserves the right to modify specifications without notice.							Last update: 28/07/2021 Revision: 03-2021			
Data referred to: (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water (2) Available pressure can be calculated from Hitema Online Selection Software (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value (4) Pressure drops taken in account: evaporator, piping (5) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change (6) Data referred to standard chiller configuration NP (no pump) and EC fans (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface (8) Flanged connections with one of next options: Pump, Double pump, Tank. Flanged connections standard for models 095÷160 (9) To avoid excessive start/stop of the compressors a minimum water volume for the entire plant must be guarantee, the tank supplied by Hitema can be not enough (10) The expansion vessel volume is calculated considering 50°C of deltaT between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge and considering only the water volume of the unit ** pump P5 includes the soft start (SF) option										

cool with HITEMA international hitema.com		ISV TABLE 2/2								
Air-cooled liquid chillers ISV <u>series</u> , inverter screw compressors, R134A / R513A / R1234ze refrigerant, shell and tube evaporator, brazed plate economizer, condenser coil with copper tubes and aluminium fins, EC axial fans r. Electrical feed 400V/3ph/50Hz (60Hz version as option). IP54 protection rating, chillers suitable for outdoor installation. Additional modules (2 fans) can be added to improve efficiency (before the order). Inbuilt water storage tank and single pump P3 as option. Microchannel condenser coils as option.										
Type of available evaporators: ST = shell and tube evaporator, with high thickness copper tubes (0,41mm) B-ES = stainless steel brazed plate evaporator					Type of available expansion elements: ETS = Electronic expansion valve (available as option)					
TECHNICAL DATA										
PERFORMANCES		Model	770	850	910	970	1030	1140	1290	1390
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	778,0	857,0	916,0	982,0	1048,0	1167,0	1290,0	1390,0
TOTAL NOMINAL ABSORBED POWER		kW	228,9	250,0	276,9	292,5	320,0	333,7	385,5	416,3
SEPR (HT) (3)		-	5,57	5,56	5,51	5,57	5,55	5,52	5,52	5,51
NOMINAL WATER FLOW		m3/h	133,7	147,2	157,4	168,7	180,0	200,5	221,6	238,8
MECHANICAL MODE PRESSURE DROPS (4) (5) (6)		kPa	55	64	68	65	68	66	76	89
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / CAPACITY CONTROL	nr.	2/2/20÷102%	2/2/20÷102%	2/2/17÷106%	2/2/16÷100%	2/2/16÷100%	2/2/22÷112%	2/2/22÷100%	2/2/22÷100%	
KIND OF EXPANSION ELEMENT	-	ETS	ETS	ETS	ETS	ETS	ETS	ETS	ETS	
KIND OF EVAPORATOR	-	ST	ST	ST	ST	ST	ST	ST	ST	
ECONOMIZER		NO	YES	NO	NO	YES	NO	NO	YES	
TYPE OF ECONOMIZER	type	plate	plate	plate	plate	plate	plate	plate	plate	
HYDRAULIC SECTION										
WATER FLOW RANGE (6)	m3/h	94,0÷188,0	102,0÷203,0	108,0÷210,0	117,0÷210,0	124,0÷227,0	125,0÷250,0	141,0÷270,0	141,0÷270,0	
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	16,22	23,51	23,51	23,51	31,88	31,88	31,88	31,88
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	26,60	39,00	39,00	39,00	53,50	53,50	53,50	53,50
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	39,09	39,09	39,09	39,09	39,09	47,31**	47,31**	47,31**
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	65,60	65,60	65,60	65,60	65,60	77,60	77,60	77,60
HYDRAULIC CONNECTIONS (FLANGED/VICTAULIC) (8)	DN	DN150	DN150	DN150	DN150	DN200	DN200	DN200	DN200	
TANK VOLUME (5) (9)	dm³	600	600	600	600	600	700	700	700	
EXPANSION VESSEL NUMBER x VOLUME (OPTION XV) (10)	liters	2x19	2x19	2x19	1x60	1x60	1x60	1x60	1x60	
FAN SECTION (AXIAL)										
FANS	nr.	12	14	14	16	16	18	18	18	
MAXIMUM FANS ABSORBED POWER	EC	kW	22,08	25,76	25,76	29,44	29,44	33,12	33,12	33,12
MAXIMUM FANS ABSORBED CURRENT		A	45,96	53,62	53,62	61,28	61,28	68,94	68,94	68,94
TOTAL AIR FLOW		m3/h	247200	288400	288400	329600	329600	370800	370800	370800
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A) (6)	A	566,0	573,6	733,6	741,3	741,3	908,9	908,9	908,9	
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)	dB(A)	72,5	72,6	73,6	73,7	73,7	74,6	74,6	74,6	
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (6) (7)	dB(A)	68,6	68,9	69,6	69,8	69,8	70,6	70,6	70,6	
SOUND PRESSURE FOR SUPER LOW NOISE OPTION (SLN) (6) (7)	dB(A)	67,9	68,0	68,9	69,0	69,0	69,9	69,9	69,9	
SOUND PRESSURE FOR EXTRA LOW NOISE OPTION (ELN) (6) (7)	dB(A)	65,6	65,9	66,6	66,8	66,8	67,6	67,6	67,6	
DIMENSIONS AND WEIGHT										
LENGTH	mm	8500	9800	9800	11100	11100	12400	12400	12400	
WIDTH	mm	2210	2210	2210	2210	2210	2210	2210	2210	
HEIGHT	mm	2450	2450	2450	2450	2450	2450	2450	2450	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)	kg	5900	6550	6730	7450	7700	9100	9600	9600	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)	kg	6200	6900	7100	7900	8200	9650	10200	10200	
The manufacturer reserves the right to modify specifications without notice.						Last update: 28/07/2021 Revision: 03-2021				
Data referred to: (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water (2) Available pressure can be calculated from Hitema Online Selection Software (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value (4) Pressure drops taken in account: evaporator, piping (5) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change (6) Data referred to standard chiller configuration NP (no pump) and EC fans (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface (8) Flanged connections with one of next options: Pump, Double pump, Tank. Flanged connections standard for models 095÷160 (9) To avoid excessive start/stop of the compressors a minimum water volume for the entire plant must be guarantee, the tank supplied by Hitema can be not enough (10) The expansion vessel volume is calculated considering 50°C of deltaT between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge and considering only the water volume of the unit ** pump P5 includes the soft start (SF) option										

PRP Serie

- Luftgekühlt
- Natürliche Kältemittel
- R290
- Modulare Bauweise
- GWP > 3
- Leistungsbereich 101 - 117 kW
- Auf bis zu 10 Module erweiterbar
- Frei Konfigurierbar
- Energieeffizient



R290 stellt die natürliche Alternative zu den herkömmlichen HFC-Kühlmitteln mit hohem GWP-Wert dar. Propan hat hervorragende Umwelteigenschaften, und ein vernachlässigbares Treibhauspotential. Außerdem kann R290 in vielen Anwendungsbereichen eingesetzt werden: Komfort, industrielle Nutzung und niedrige Wassertemperatur.

Nur für den Außenbereich.

cool with HITEMA international hitema.com		HPRP TABLE 1/4								
Reversible heat-pumps <u>HPRP series</u> , PISTONS compressors, R290 refrigerant, brazed-plate evaporator/condenser, condenser/evaporator coil with copper tubes and aluminium fins with hydrophilic coating, EC axial fans, electronic expansion valve. IP54 protection rating, heat-pump suitable for outdoor installation. Minimum working ambient temperature admitted = -5°C										
Type of available evaporators: B-ES = stainless steel brazed plate evaporator										
COOLING										
TECHNICAL DATA										
PERFORMANCES		Model	055	063	085	100	120	152	180	200
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	56,8	62,8	86,8	113,7	125,6	153,4	179,0	212,6
TOTAL NOMINAL ABSORBED POWER		kW	17,8	19,9	28,7	35,5	39,7	48,0	58,1	73,4
SEPR (HT) (3)		-	5,72	5,73	5,71	5,69	5,97	6,16	5,89	6,07
NOMINAL WATER FLOW (5)		m3/h	9,8	10,8	14,9	19,5	21,6	26,4	30,7	36,5
MECHANICAL MODE PRESSURE DROPS (4)		kPa	40	32	45	40	48	35	34	45
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP		nr.	1/1/2	1/1/2	1/1/2	2/2/4	2/2/4	2/2/4	2/2/4	2/2/4
HYDRAULIC SECTION										
WATER FLOW RANGE (6)		m3/h	6÷12	8÷17	8÷17	13÷23	16÷35	16÷35	20÷40	29÷53
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	2,53	2,53	2,53	3,46	4,56	4,56	8,30	8,30
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	4,56	4,56	4,56	6,33	7,75	7,75	14,10	14,10
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	6,12	6,12	6,12	6,12	10,20	10,20	16,22	16,22
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	10,40	10,40	10,40	10,40	17,40	17,40	26,60	26,60
HYDRAULIC CONNECTIONS (THREADED / FLANGED)		BSP / DN	2"	2"	2"	DN65	DN65	DN65	DN80	DN80
FAN SECTION (AXIAL)										
FANS		nr.	2	2	2	4	4	4	4	6
MAXIMUM FANS ABSORBED POWER	EC	kW	3,88	3,88	3,88	7,76	7,76	7,76	7,76	11,64
MAXIMUM FANS ABSORBED CURRENT		A	7,80	7,80	7,80	15,60	15,60	15,60	15,60	23,40
TOTAL AIR FLOW		m3/h	41166	41166	41166	82332	82332	82332	82332	123498
TOTAL ELECTRIC DATA										
ELECTRICAL FEED		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
MAXIMUM ABSORBED CURRENT (F.L.A) (6)		A	41,5	46,1	61,5	82,9	92,2	106,2	122,9	158,6
MAXIMUM PEAK CURRENT (L.R.A) (6)		A	126,1	140,4	167,0	167,6	186,5	205,4	228,5	306,0
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)		A	102,4	113,9	135,2	143,9	160,0	176,5	196,6	263,0
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)		dB(A)	57,8	58,5	59,3	60,8	61,5	61,8	62,3	63,5
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (6) (7)		dB(A)	57,3	57,5	57,9	60,3	60,5	60,7	60,9	62,4
DIMENSIONS AND WEIGHT										
LENGTH		mm	1610	1610	1610	2910	2910	2910	2910	4210
WIDTH		mm	2210	2210	2210	2210	2210	2210	2210	2210
HEIGHT		mm	2500	2500	2500	2500	2500	2500	2500	2500
WEIGHT EMPTY FOR STANDARD CONFIGURATION (6)		kg	1030	1200	1250	1900	2100	2200	2320	2740
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6)		kg	1050	1225	1280	1950	2170	2280	2400	2840
The manufacturer reserves the right to modify specifications without notice.										
								Last update: Revision:	05/10/2021 00-2021	

Data referred to:

(1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water

(2) Available pressure can be calculated from Hitema Online Selection Software

(3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers

(4) Pressure drops taken in account: evaporator, valves, piping

(5) Water flow is different from heating mode, assuming that an inverter pump will be used

(6) Data referred to standard chiller configuration NP (no pump) and AC fans

(7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface

* For the configuration DPH (double pump P5) the chiller width will be 1305mm

** For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm

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TABLE 2/4

Reversible heat-pumps **HPRP series**, PISTONS compressors, R290 refrigerant, brazed-plate evaporator/condenser, condenser/evaporator coil with copper tubes and aluminium fins with hydrophilic coating, EC axial fans, electronic expansion valve.
IP54 protection rating, heat-pump suitable for outdoor installation. Minimum working ambient temperature admitted = -5°C

Type of available evaporators:
B-ES = stainless steel brazed plate evaporator



TECHNICAL DATA

PERFORMANCES		Model	235	260	290	330
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	237,9	261,4	286,4	330,9
TOTAL NOMINAL ABSORBED POWER		kW	77,1	86,2	100,3	115,1
SEPR (HT) (3)		-	6,21	6,47	6,17	5,90
NOMINAL WATER FLOW (5)		m3/h	40,9	44,9	49,2	56,8
MECHANICAL MODE PRESSURE DROPS (4)		kPa	43	42	40	40
FRIGORIFIC SECTION						
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP		nr.	2/2/4	2/2/4	2/2/4	2/2/4
HYDRAULIC SECTION						
WATER FLOW RANGE (6)		m3/h	29÷53	29÷53	36÷66	36÷70
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	8,30	8,30	8,30	8,30
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	14,10	14,10	14,10	14,10
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	16,22	16,22	16,22	16,22
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	26,60	26,60	26,60	26,60
HYDRAULIC CONNECTIONS (THREADED / FLANGED)		BSP / DN	DN80	DN80	DN100	DN100
FAN SECTION (AXIAL)						
FANS		nr.	6	6	8	8
MAXIMUM FANS ABSORBED POWER	AC	kW	11,64	11,64	15,52	15,52
MAXIMUM FANS ABSORBED CURRENT		A	23,40	23,40	31,20	31,20
TOTAL AIR FLOW		m3/h	123498	123498	164664	164664
TOTAL ELECTRIC DATA						
ELECTRICAL FEED		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50
MAXIMUM ABSORBED CURRENT (F.L.A) (6)		A	173,7	196,0	224,8	250,1
MAXIMUM PEAK CURRENT (L.R.A) (6)		A	356,6	435,7	518,0	557,6
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)		A	305,0	370,5	440,0	474,2
NOISE DATA						
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)		dB(A)	63,6	65,7	66,6	67,8
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (6) (7)		dB(A)	62,5	63,5	64,5	65,1
DIMENSIONS AND WEIGHT						
LENGTH		mm	4210	4210	5900	5900
WIDTH		mm	2210	2210	2210	2210
HEIGHT		mm	2500	2500	2500	2500
WEIGHT EMPTY FOR STANDARD CONFIGURATION (6)		kg	2850	3270	3900	4050
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6)		kg	2950	3370	4000	4180

The manufacturer reserves the right to modify specifications without notice.

Last update: 28/07/2020

Revision: 00-2020

Data referred to:
(1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
(2) Available pressure can be calculated from Hitema Online Selection Software
(3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers
(4) Pressure drops taken in account: evaporator, valves, piping
(5) Water flow is different from heating mode, assuming that an inverter pump will be used
(6) Data referred to standard chiller configuration NP (no pump) and AC fans
(7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface

* For the configuration DPH (double pump P5) the chiller width will be 1305mm
** For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm

cool with HITEMA international hitema.com		HPRP TABLE 3/4								
Reversible heat-pumps HPRP series, PISTONS compressors, R290 refrigerant, brazed-plate evaporator/condenser, condenser/evaporator coil with copper tubes and aluminium fins with hydrophilic coating, EC axial fans, electronic expansion valve. IP54 protection rating, heat-pump suitable for outdoor installation. Minimum working ambient temperature admitted = -5°C										
Type of available evaporators: B-ES = stainless steel brazed plate evaporator										
HEATING										
TECHNICAL DATA										
PERFORMANCES										
		Model	055	063	085	100	120	152	180	200
NOMINAL COOLING CAPACITY	W 40°C/45°C @ 7°C (1)	kW	59,0	65,7	92,2	117,9	130,9	159,0	184,4	219,3
TOTAL NOMINAL ABSORBED POWER		kW	18,7	20,4	28,4	37,5	42,2	48,8	56,8	73,0
SEPR (HT) (3)		-	3,15	3,21	3,24	3,15	3,10	3,26	3,24	3,00
NOMINAL WATER FLOW (5)		m3/h	10,1	11,3	15,8	20,3	22,5	27,3	31,7	37,7
MECHANICAL MODE PRESSURE DROPS (4)		kPa	40	32	45	38	48	37	37	49
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP		nr.	1/1/2	1/1/2	1/1/2	2/2/4	2/2/4	2/2/4	2/2/4	2/2/4
HYDRAULIC SECTION										
WATER FLOW RANGE (6)		m3/h	6÷12	8÷17	8÷17	13÷23	16÷35	16÷35	20÷40	29÷53
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	2,53	2,53	2,53	3,46	4,56	4,56	8,30	8,30
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	4,56	4,56	4,56	6,33	7,75	7,75	14,10	14,10
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	6,12	6,12	6,12	6,12	10,20	10,20	16,22	16,22
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	10,40	10,40	10,40	10,40	17,40	17,40	26,60	26,60
HYDRAULIC CONNECTIONS (THREADED / FLANGED)		BSP / DN	2"	2"	2"	DN65	DN65	DN65	DN80	DN80
FAN SECTION (AXIAL)										
FANS		nr.	2	2	2	4	4	4	4	6
MAXIMUM FANS ABSORBED POWER	EC	kW	3,88	3,88	3,88	7,76	7,76	7,76	7,76	11,64
MAXIMUM FANS ABSORBED CURRENT		A	7,80	7,80	7,80	15,60	15,60	15,60	15,60	23,40
TOTAL AIR FLOW		m3/h	41166	41166	41166	82332	82332	82332	82332	123498
TOTAL ELECTRIC DATA										
ELECTRICAL FEED		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
MAXIMUM ABSORBED CURRENT (F.L.A) (6)		A	41,5	46,1	61,5	82,9	92,2	106,2	122,9	158,6
MAXIMUM PEAK CURRENT (L.R.A) (6)		A	126,1	140,4	167,0	167,6	186,5	205,4	228,5	306,0
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)		A	102,4	113,9	135,2	143,9	160,0	176,5	196,6	263,0
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)		dB(A)	57,8	58,5	59,3	60,8	61,5	61,8	62,3	63,5
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (6) (7)		dB(A)	57,3	57,5	57,9	60,3	60,5	60,7	60,9	62,4
DIMENSIONS AND WEIGHT										
LENGTH		mm	1610	1610	1610	2910	2910	2910	2910	4210
WIDTH		mm	2210	2210	2210	2210	2210	2210	2210	2210
HEIGHT		mm	2500	2500	2500	2500	2500	2500	2500	2500
WEIGHT EMPTY FOR STANDARD CONFIGURATION (6)		kg	1030	1200	1250	1900	2100	2200	2320	2740
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6)		kg	1050	1225	1280	1950	2170	2280	2400	2840
The manufacturer reserves the right to modify specifications without notice. Last update: 05/10/2021 Revision: 00-2021										
Data referred to: (1) Data referred to inlet/outlet water temperature = +40/+45 °C, ambient temperature = +7°C, fluid = Water (2) Available pressure can be calculated from Hitema Online Selection Software (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers (4) Pressure drops taken in account: evaporator, valves, piping (5) Water flow is different from heating mode, assuming that an inverter pump will be used (6) Data referred to standard chiller configuration NP (no pump) and AC fans (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface										
* For the configuration DPH (double pump P5) the chiller width will be 1305mm ** For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm										

 **HEATING**

PERFORMANCES

DIMENSIONS AND WEIGHT					
LENGTH	mm	4210	4210	5900	5900
WIDTH	mm	2210	2210	2210	2210
HEIGHT	mm	2500	2500	2500	2500
WEIGHT EMPTY FOR STANDARD CONFIGURATION (6)	kg	2850	3270	3900	4050
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6)	kg	2950	3370	4000	4180

Last update:	28/07/2020
Revision:	00-2020

(7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface

** For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm

 info@ikg-industriekaelte.de

Auswahl an Sonderkonfigurationen für spezielle Anwendungen



GROSSES PROJEKT - 9 KÜHLGERÄTE MIT EINGEBAUTER PUMPE UND TANK

Modell: EEF.1000
Typ: SCHRAUBENVERDICHTER
Anwendung: DATA CENTER



HOCHEFFIZIENZ KALTWASSERSATZ MIT INTEGRIERTER FREIKÜHLUNG

Modell: NOVAF.863F8-HE.M1
Typ: SCHRAUBENKOMPRESSOREN
Anwendung: KUNSTSTOFFVERFAHREN



KOMPAKTES DESIGN MIT PLATTENVERDAMPFER UND VERDICHTER

Modell: CFTW.075
Typ: SCROLL KOMPRESSOREN
Anwendung: MACHINE TOOLS



FREECOOLING CHILLER MIT EC-LÜFTERN & KONFIGURATION MIT HOHER EFFIZIENZ

Modell: NOVAF.993F22-HE.M1
Typ: SCHRAUBENVERDICHTER
Anwendung: Kunststoff - Verarbeitung



ATEX-KÄLTEANLAGEN ZONE II 3G EX H IIB T3 GC GEEIGNET FÜR ARBEITEN BIS 60°C

Modell: FTC.008
Typ: RECIPROCATING COMPRESSORS
Anwendung: TANK SHOWERS



MIETKÄLTEANLAGEN INKL. FERNWARTUNG FÜR ALLE EINSATZBEREICHE

Modell: SBS.330
Typ: SCROLLKOMPRESSOREN
Anwendung: PROZESSKÜHLUNG



WASSERGEKÜHLTER KALTWASSERSATZ MIT EINEM KÄLTEMITTELKREIS

Modell: CWB1.350
Typ: SCHRAUBENKOMPRESSOREN
Anwendung: KLIMAANLAGE



PROPANEINHEIT (GWP = 3) MIT EC-LÜFTERN UND LEAK DETECTION SYSTEM

Modell: PRP-MT.150
Typ: RECIPROCATING
Anwendung: INDUSTRIAL REFRIGERATION



WASSERGEKÜHLTER KALTWASSERSATZ

Modell: ENW.160
Typ: SCROLL COMPRESSORS
Anwendung: PLASTIC PROCESS



HYDROMODUL MIT 1100L TANK UND DOPPELPUMPEN

Modell: HYD.1100L
Typ: Doppelpumpe
Anwendung: CHEMICAL PROCESS



460V / 3PH / 60HZ WASSERGEKÜHLTER CHILLER MIT HEISSGAS-BYPASS

Modell: ENW.100
Typ: SCROLL
Anwendung: EXTRUSIONSPROZESS



CHILLER BIS 48 ° C UMGEBUNGSTEMPERATUR MIT TANK UND PUMPE

Modell: ENR.230
Typ: SCROLL
Anwendung: EXTRUSIONSMASCHINE



GRÜNE LÖSUNG MIT R1324ZE IN SEHR LEISER AUSFÜHRUNG

Modell: NOVA.883F8-ECO.M2
Typ: SCHRAUBE
Anwendung: PROZESSKÜHLUNG



CHILLER MIT INTEGRIERTER FREIKÜHLUNG & INVERTERSCHRAUBENKOMPRESSOREN

Modell: ISVF.680
Typ: SCROLL
Anwendung: CHEMICAL PROCESS



LOW GWP KÄLTEMITTEL R454B UND LOW NOISE VERSION

Modell: ENR.185
Typ: SCROLL
Anwendung: ESSEN UND TRINKEN



KOMPAKTES DESIGN MIT PLATTENVERDAMPFERN UND VERDICHTERN

Modell: CFTW.280
Typ: SCROLL
Anwendung: CHEMICAL



LOW GWP KÄLTEMITTEL R454B UND LOW NOISE VERSION

Modell: ENR.100
Typ: SCROLL
Anwendung: LANDWIRTSCHAFT



FREECOOLING CHILLER MIT HOCHDRUCKPUMPE

Modell: ENRF.022
Typ: SCROLL
Anwendung: LEBENSMITTEL UND GETRÄNKE

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ALLES AUS EINER HAND!

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In Kooperation mit

