



HIREF: ITALIAN COOLING SOLUTIONS

ITALIAN
COOLING
SOLUTIONS



HiRef®





- Основан в 2001
- Прецизионные кондиционеры
- Коммерческие и промышленные чиллеры
- Геотермальные тепловые насосы



СЕГОДНЯ...



✓ 203 сотрудника



✓ 7500 м² производственных площадей



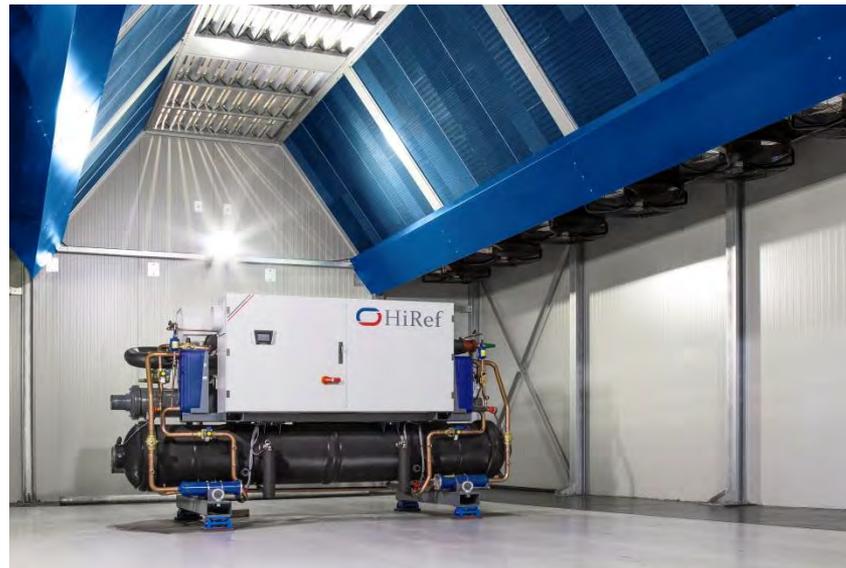
✓ R&D департамент

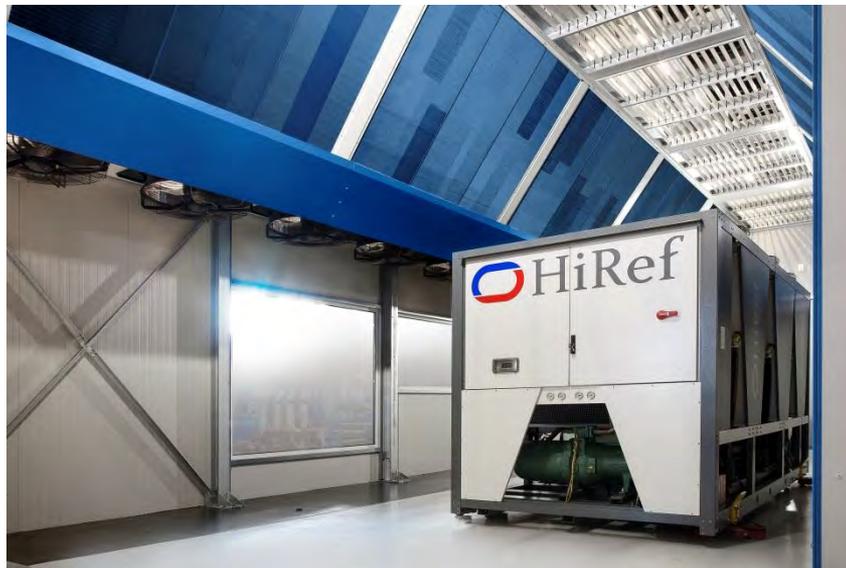
СЕРТИФИКАТЫ

- CE – сертификат на всю продукцию
- 97/23 PED EC-Directive: вся продукция HiRef сертифицирована в категории III - IV
- ISO 9001:2000 Гарантия качества TUV Thüringen
- EAC декларация соответствия таможенного союза

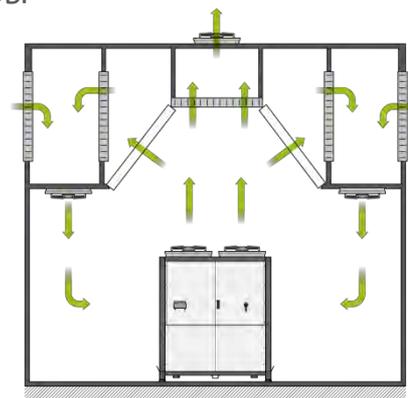


- 60 фиксируемых каналов данных
- 650 А Max возможный ток





- **1.5 MW** Максимальная холодильная или тепловая мощность
- **+55 ... -15** Диапазон температур
- **450 000 м³/ч** Максимальный расход воздуха
- **750 кВт - 1000 А** Доступный источник питания с собственной электростанцией @ 400 В / 3 Ф / 50 Гц
- Сертифицированные измерительные приборы





...2013...

Холодильная камера

Производительность: 50 кВт

Температура: до -60°C

Возможность квалифицировать компоненты и моделировать работу агрегатов чиллеров в условиях низких температур

ЭКСТРЕМАЛЬНЫЙ ТЕМПЕРАТУРНЫЙ ТЕСТ

	SOURCE	WORKING MODE	RANGE	REFRIG. FLUID	COMPRESSORS	APPLICATION
CBE			8 - 42* (kW)		1 CIRCUIT FULL BLOC	RESIDENTIAL AND LIGHT PROCESS
PCC			5 - 151* (kW)		SCROLL 1-2 REFRIGERANT CIRCUITS	PROCESS
HPS			43 - 216** (kW)		SCROLL EVI VAPOUR INJ. 2 REFRIGERANT CIRCUITS	COMMERCIAL
TSC			57 - 219* (kW)		SCROLL 2 REFRIGERANT CIRCUITS	COMMERCIAL AND INDUSTRIAL
MHA			23 - 309* (kW)		SCROLL BLOC + ON/OFF 1-2 REFRIGERANT CIRCUITS VRF READY	COMMERCIAL AND INDUSTRIAL
MSA			55 - 604* (kW)		SCROLL 2 REFRIGERANT CIRCUITS	COMMERCIAL
TSE			47 - 706* (kW)		SCROLL 1-2 REFRIGERANT CIRCUITS	COMMERCIAL AND INDUSTRIAL
TSX			50 - 1310* (kW)		SCROLL 1-4 REFRIGERANT CIRCUITS	COMMERCIAL AND INDUSTRIAL

	SOURCE	WORKING MODE	RANGE	REFRIG. FLUID	COMPRESSORS	APPLICATION
CBW			13 - 48* (kW)		SINGLE BLOC	RESIDENTIAL AND LIGHT PROCESS
MHW			56 - 169* (kW)		SCROLL BLOC + ON/OFF 1-2 REFRIGERANT CIRCUITS VRF READY	COMMERCIAL AND INDUSTRIAL
KSW			50 - 400* (kW)		SCROLL 1-2 REFRIGERANT CIRCUITS EVAPORATION UP TO 40 °C	COMMERCIAL AND INDUSTRIAL
MSW			53 - 491* (kW)		SCROLL 1-2 REFRIGERANT CIRCUITS	COMMERCIAL
XSW			54 - 808* (kW)		SCROLL 1-2 REFRIGERANT CIRCUITS	COMMERCIAL AND INDUSTRIAL
XVW			428 - 1644* (kW)		DOUBLE SCREW INVERTER DRIVEN	INDUSTRIAL
XTW			335 - 2400* (kW)		TURBOCOR	COMMERCIAL AND INDUSTRIAL
PLM			10 - 200*** (m³/h)		NO COMPRESSORS	COMMERCIAL AND INDUSTRIAL

ПРЕЦИЗИОННЫЕ КОНДИЦИОНЕРЫ



VERSION	REFRIGERANT FLUID	COOLING CAPACITY	AIR DISTRIBUTION
DIRECT EXPANSION CLOSE CONTROL AIR CONDITIONING UNIT WITH RADIAL FANS AND SCROLL COMPRESSORS			
JREF DX	DX R-410A, R-407C, R-134a	7 - 25 (kW)	DOWNFLOW UPFLOW DISPLACEMENT
CHILLED WATER CLOSE CONTROL AIR CONDITIONING UNIT WITH RADIAL FANS			
JREF CW	CW	18 - 33 (kW)	DOWNFLOW UPFLOW DISPLACEMENT
DIRECT EXPANSION CLOSE CONTROL AIR CONDITIONING UNIT WITH CENTRIFUGAL FANS AND SCROLL COMPRESSORS			
JREF C DX	DX R-410A, R-407C, R-134a	8 - 25 (kW)	DOWNFLOW UPFLOW DISPLACEMENT
CHILLED WATER CLOSE CONTROL AIR CONDITIONING UNIT WITH CENTRIFUGAL FANS			
JREF C CW	CW	9 - 24 (kW)	DOWNFLOW UPFLOW DISPLACEMENT
DUAL COOLING CLOSE CONTROL AIR CONDITIONING UNIT WITH RADIAL FANS AND SCROLL COMPRESSORS			
JREF DUAL COOLING	DX + CW R-410A, R-407C, R-134a	12 - 20 (DX) 18 - 23 (CW) (kW)	DOWNFLOW UPFLOW DISPLACEMENT
INDIRECT FREE COOLING CLOSE CONTROL AIR CONDITIONING UNIT WITH RADIAL FANS AND SCROLL COMPRESSORS			
JREF FREE-COOLING	DX R-410A, R-407C, R-134a	12 - 21 (kW)	DOWNFLOW UPFLOW DISPLACEMENT
INVERTER DRIVEN CLOSE CONTROL AIR CONDITIONING UNIT WITH BLOC SCROLL COMPRESSORS			
NRG	DX R-410A	10 - 99 (kW)	DOWNFLOW UPFLOW DISPLACEMENT
DIRECT EXPANSION CLOSE CONTROL AIR CONDITIONING UNIT WITH SCROLL COMPRESSORS			
TREF DX	DX R-410A, R-407C, R-134a	27 - 142 (kW)	DOWNFLOW UPFLOW DISPLACEMENT

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VERSION	REFRIGERANT FLUID	COOLING CAPACITY	AIR DISTRIBUTION
CHILLED WATER UNDERFLOOR CLOSE CONTROL UNIT			
HBCV	CW	40 - 200 (kW)	DOWNFLOW
UNDERFLOOR FAN CLOSE CONTROL UNIT			
SCDR	CW	69 - 256 (kW)	DOWNFLOW
UNDERFLOOR FAN CLOSE CONTROL UNIT			
FCDR	CW	81 - 334 (kW)	DOWNFLOW
INDIRECT FREE COOLING UNIT WITH ADIABATIC COOLING			
HDB	DX, CW R-410A	100 - 330 (kW)	DOWNFLOW
HIGH PRECISION ULTRASONIC HUMIDIFIER WITH EC FANS			
HHM	ATMISED WATER PRODUCTION	0 - 28 (kg/h)	DOWNFLOW
19" HIGH DENSITY COOLING UNIT WITH ROTARY OR BLOC TWIN ROTARY COMPRESSORS			
MRAC	DX R-410A	3.6 - 7.9 (kW)	IN-RACK
MONOBLOC RACK COOLING UNIT WITH SCROLL COMPRESSORS			
HRCM	DX R-410A	6 - 10 (kW)	IN RACK IN ROW

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ПРЕЦИЗИОННЫЕ КОНДИЦИОНЕРЫ

VERSION	REFRIGERANT FLUID	COOLING CAPACITY	AIR DISTRIBUTION
NTG	INDOOR MONOBLOC UNIT WITH ON-OFF OR BLDC TWIN ROTARY COMPRESSORS DX, R-410A	3 - 9 (kW)	DISPLACEMENT
HTWD	OUTDOOR MONOBLOC UNIT WITH ON-OFF ROTARY OR SCROLL COMPRESSORS DX, R-410A, R-407C, R-134a	4 - 13 (kW)	DOWNFLOW
NTWD	OUTDOOR MONOBLOC UNIT WITH BLDC SCROLL COMPRESSORS DX, R-410A	8 - 11 (kW)	UPFLOW
HTD	INDOOR MONOBLOC UNIT WITH ON-OFF ROTARY OR SCROLL COMPRESSORS DX, R-410A, R-407C, R-134a	4 - 28 (kW)	DOWNFLOW UPFLOW DISPLACEMENT
HTU	INDOOR MONOBLOC UNIT WITH ON-OFF ROTARY OR SCROLL COMPRESSORS DX, R-410A, R-134a	4 - 28 (kW)	UPFLOW
HTX	INDOOR MONOBLOC UNIT WITH ON-OFF ROTARY OR SCROLL COMPRESSORS DX, R-410A, R-407C, R-134a	4 - 28 (kW)	DISPLACEMENT
NTD	INDOOR MONOBLOC UNIT WITH BLDC SCROLL COMPRESSORS DX, R-410A	4 - 30 (kW)	DOWNFLOW UPFLOW DISPLACEMENT

VERSION	REFRIGERANT FLUID	COOLING CAPACITY	AIR DISTRIBUTION
HTW	OUTDOOR MONOBLOC UNIT WITH ON-OFF ROTARY OR SCROLL COMPRESSORS DX, R-410A, R-407C, R-134a	4 - 32 (kW)	UPFLOW
NTW	OUTDOOR MONOBLOC UNIT WITH BLDC SCROLL COMPRESSORS DX, R-410A	8 - 20 (kW)	UPFLOW
HTR	TELECOM ROOFTOP WITH ON-OFF SCROLL COMPRESSORS DX, R-410A, R-407C, R-134a	7 - 34 (kW)	VERTICAL AIRFLOW
NTR	TELECOM ROOFTOP WITH BLDC SCROLL COMPRESSORS DX, R-410A	7 - 34 (kW)	VERTICAL AIRFLOW
HTI CW	CHILLED WATER PACKAGED AIR CONDITIONING UNIT CW, Water	3 - 35 (kW)	VERTICAL HORIZONTAL
HTS	TELECOM SPLIT UNIT WITH ON-OFF ROTARY OR SCROLL COMPRESSORS DX, R-410A, R-407C, R-134a	3 - 39 (kW)	VERTICAL HORIZONTAL
NTS	TELECOM SPLIT UNIT WITH BLDC SCROLL COMPRESSORS DX, R-410A	8 - 16 (kW)	VERTICAL HORIZONTAL

ТЕПЕРЬ РОССИЙСКОЕ!!!



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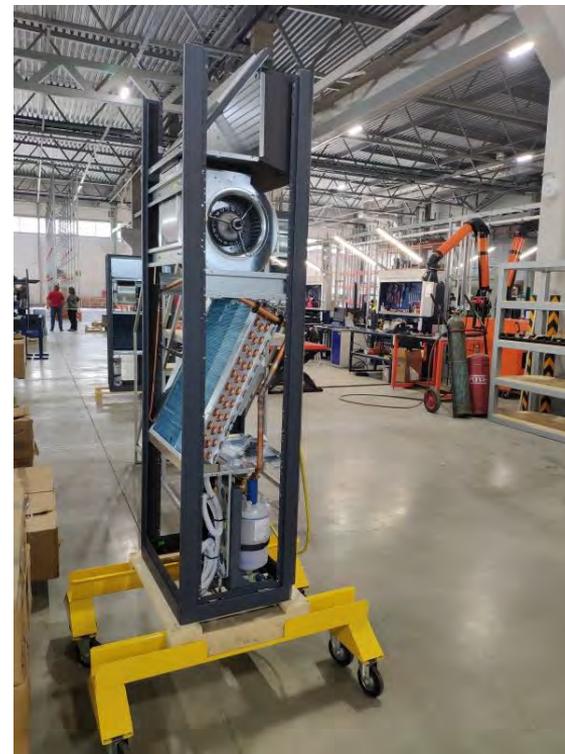
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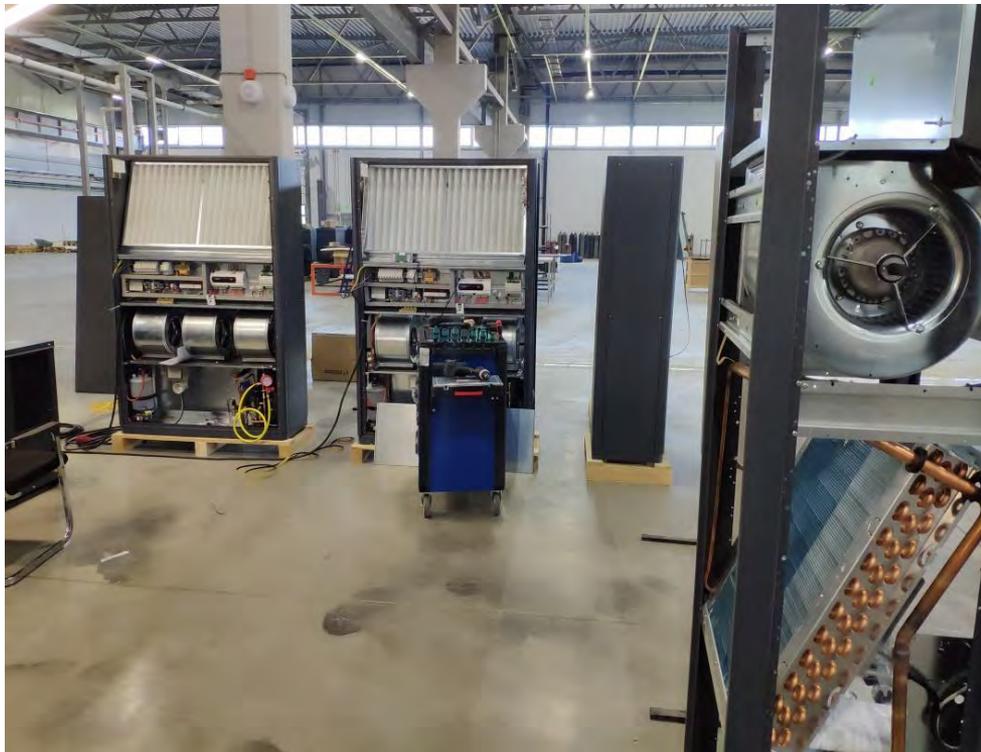
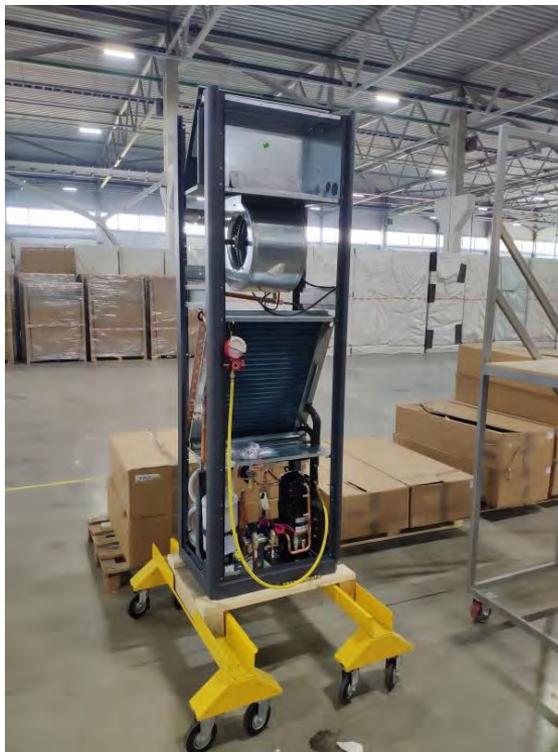
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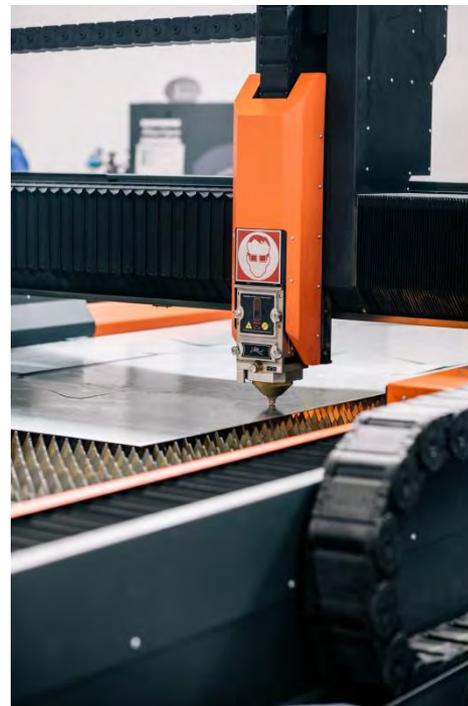
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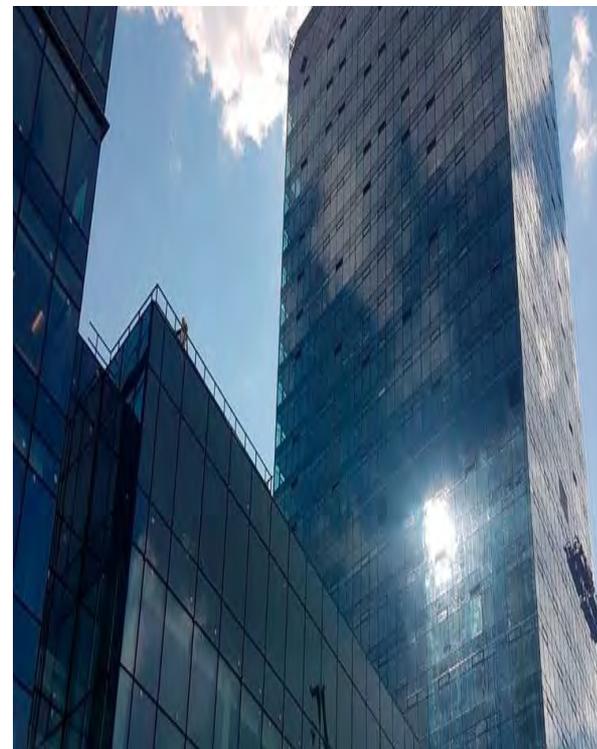
Павильон «Нур Алем»

Офис национальной
компании
"Астана ЭКСПО-2017"





Международные
павильоны ЭКСПО-2017



Бизнес-центр Т4,
АО «Самрук-Казына»



«Казморфлот»



«Астана-Арена»



Национальный архив



АО «КазТрансГаз»

ООО «ХАЙРЕФ РУС»

125438, г. Москва, Лихоборская набережная , д. 9, стр. 1

+7 (495) 241-44-34

www.hiref.ru

info@hiref.ru