



I·K·M

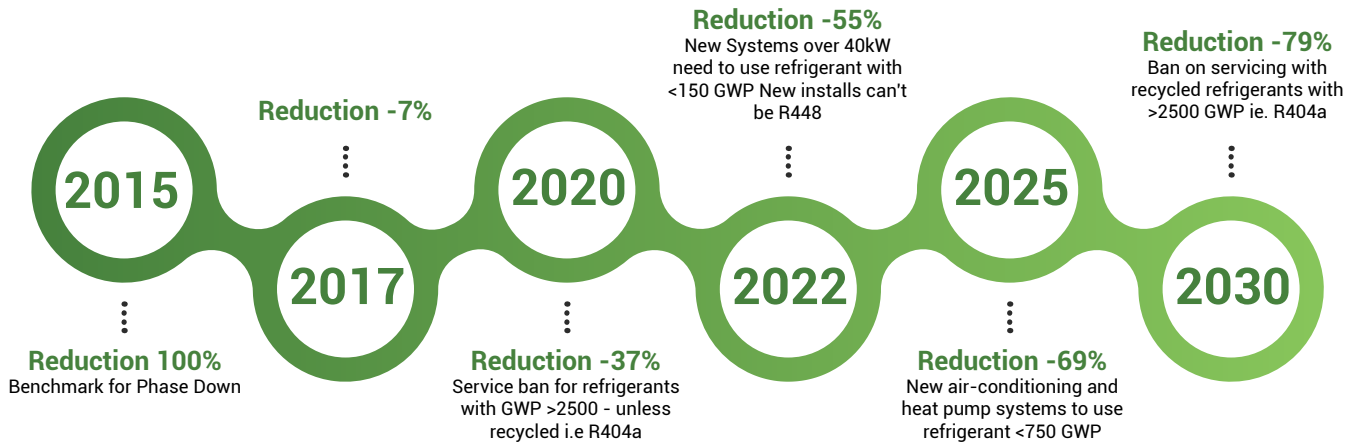
IKM
HVAC AS

PRODUCT CATALOGUE











CO₂ CLOSE CONTROL UNIT

REFRIGERANT PHASE DOWN



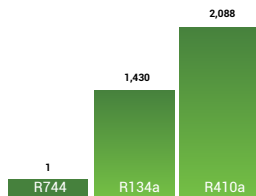
VARIOUS REFRIGERANT COMPARISON

REFRIGERANT FLUIDS								
CHARACTERISTICS	R12	R22	R134a	R404A	R290	R600a	NH ₃	CO ₂ (R744)
 Natural refrigerant	×	×	×	×	✓	✓	✓	✓
 Classification	CFC	HCFC	HFC	HFC	HC	HC	Inorganic	Inorganic
 ODP (Ozone Depletion Potential)	0.82	0.055	0	0	0	0	0	0
 GWP (Global Warming Potential)	8.100	1.500	1.300	3.922	3	3	<1	1
 Flamable	×	×	×	×	✓	✓	✓	×
 Toxic	×	×	×	×	×	×	✓	×
 Critical temperature (°C)	112	96.2	101.2	72.1	96.7	134.7	132.3	31.1
 Critical pressure (Bar)	41.4	49.9	40.6	37.3	42.5	36.4	112.7	73.8

CO₂ THE NATURAL REFRIGERANT FOR TOMORROW

Since 1850, CO₂ has proven to be one of the most reliable, efficient, and environmentally friendly refrigerants. Now, CO₂ is being used worldwide to provide a sustainable and cost-effective refrigerant solution - one that is compliant with the increased environmental requirements of today and tomorrow.

VARIOUS REFRIGERANT COMPARISON



Low GWP



Ozone Friendly



Non-Flammable



High Water
Temperature



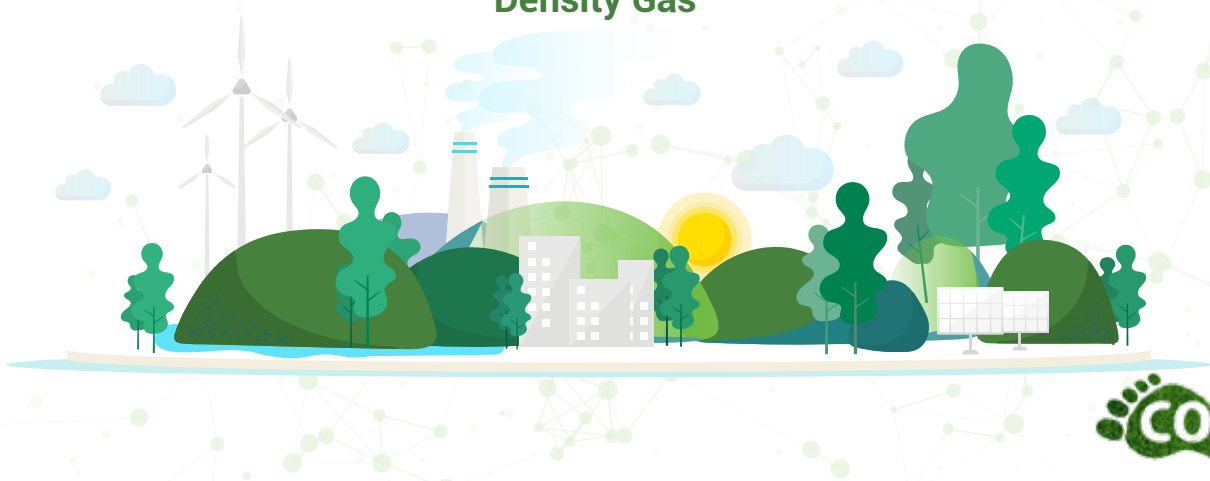
High Efficiency
(Patented CO₂ System)



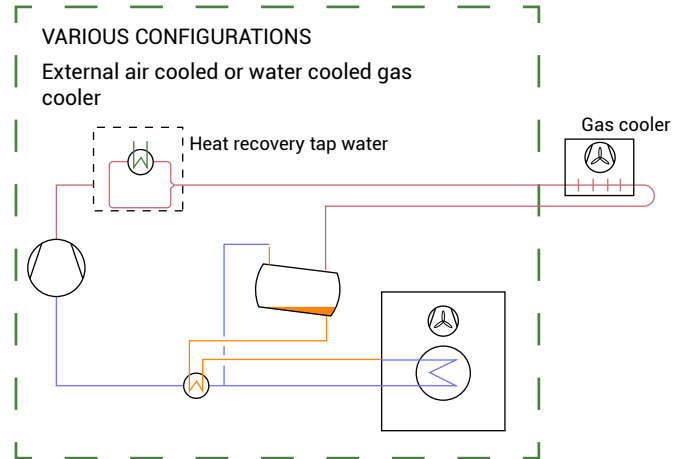
High Pressure
Refrigerant



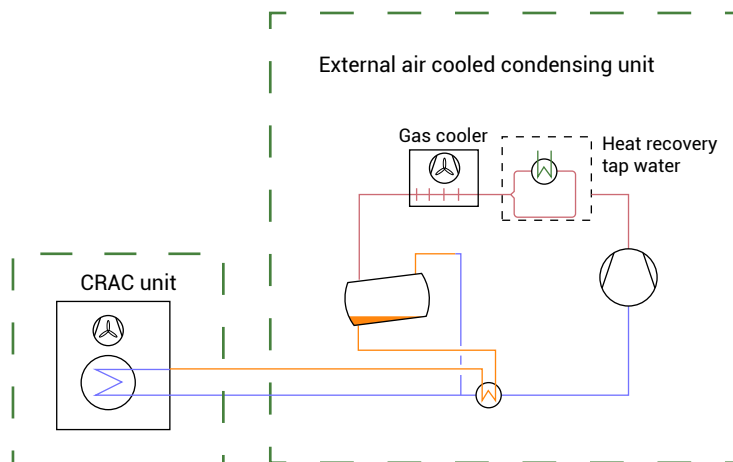
High
Density Gas



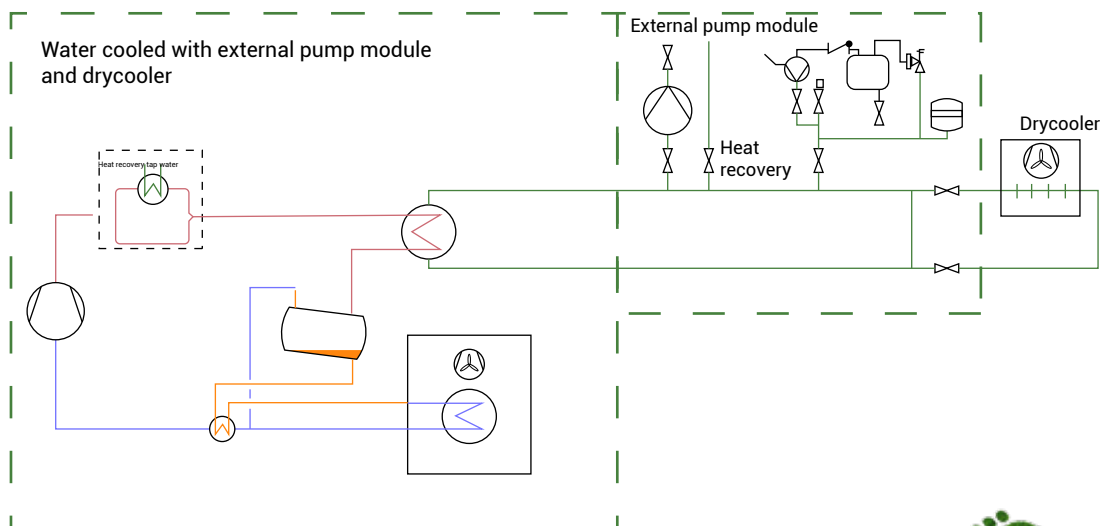
TYPE - 1



TYPE - 2



TYPE - 3





AIR DISCHARGE

- ≡ Top air discharge and front intake
- ≡ Bottom air discharge and upper intake

VERSIONS

- ≡ Cooling only
- ≡ Cooling and heating
- ≡ Cooling and humidification
- ≡ Cooling, heating, humidification and dehumidification

STANDARD CONFIGURATION

- ≡ Single or double skin galvanised casing
- ≡ Fixed speed semi hermetic compressor
- ≡ Internal sound insulated compressor cabinet
- ≡ EC controlled fans
- ≡ Copper coil with Aluminium fins
- ≡ Eu 5 air filter
- ≡ Supply voltage 230/400-3-50
- ≡ 304L internal tubing & piping
- ≡ Reftronix Controller
- ≡ PED certificate
- ≡ Pressure class 80/120bar



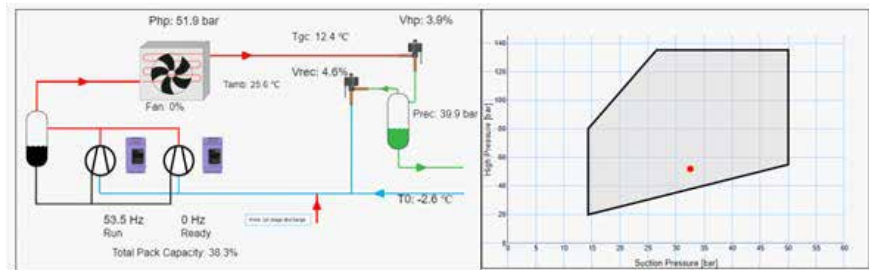
OPTIONS

- ≡ Air cooled outdoor condensing unit
- ≡ Inverter semi hermetic compressor
- ≡ External gas cooler water or air cooled
- ≡ Water cooled version
- ≡ EU 7 filter
- ≡ Modbus communication for BMS
- ≡ Heat recovery to building or tap water
- ≡ Pump-module for heat recovery
- ≡ Pump-module for drycooler
- ≡ Drycooler
- ≡ Epoxy fin gas-cooler
- ≡ Dirty filter alarm
- ≡ High ESP fans
- ≡ Hot water coil
- ≡ Electric heating coil
- ≡ Humidifier
- ≡ Unit Silencer
- ≡ Scheduler
- ≡ Web monitoring
- ≡ Fire sensor
- ≡ Smoke sensor
- ≡ Condensate drain pump
- ≡ Remote control panel
- ≡ Adjustable base frame

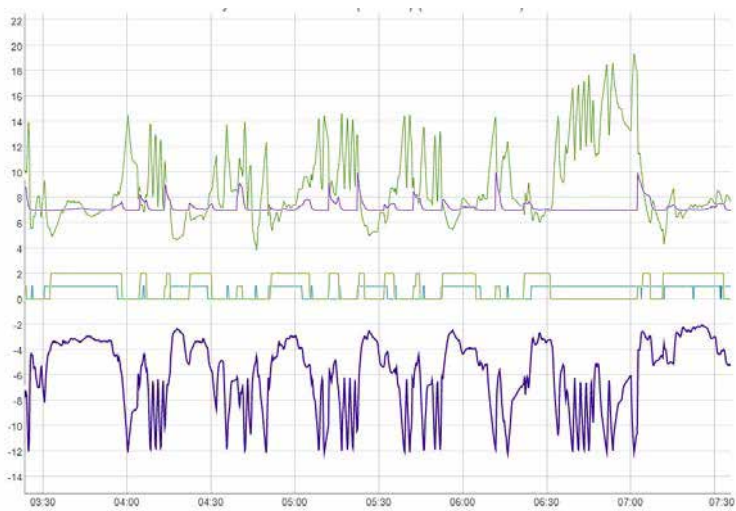


CONTROLS

VISUAL DISPLAY TOUCH WITH LIVE DATA



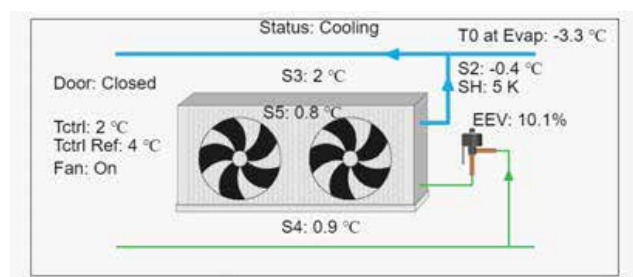
LIVE LOGGING SYSTEM OF ALL OPERATING DATA









UNIT COMES WITH A STANDARD KEYPAD DISPLAY






AS OPTION IT IS POSSIBLE TO HAVE TOUCH DISPLAY WITH DIFFERENT LIVE VIEW OF OPERATING STATUS



TECHNICAL PARAMETERS

						
Model	Max kW +24C/+28°C	Max kW +24C/+28°C	Max kW +24C/+35°C	Reg	M3/h max	Pa max
CR15-380	6.6	15.1	12.5	INV 30-70hz	4 500	250
CR24-700	9.6	23.5	19.7	INV 30-75hz	7 000	
CR31-1000	10.5	31.0	25.9	INV 25-75hz	8 500	
CR38-1200	13.1	38.4	32.1	INV 25-75hz	10 200	
CR50-1300	16.9	49.6	41.5	INV 25-75hz	14 300	
CR56-1500	19.3	56.9	47.6	INV 25-75hz	15 100	
CR65-1900	22.1	64.9	54.3	INV 25-75hz	17 200	
CR76-2400	25.9	76.0	63.7	INV 25-75hz	20 100	

	 mm			 KG
Model	Depth	Width	Height	Operating weight Type 2 indoor
CR15-380	250	1200	1980	770
CR24-700		1400		810
CR31-1000		1800		950
CR38-1200				1080
CR50-1300		2400		1150
CR56-1500		2800		1280
CR65-1900		3200		1320
CR76-2400		3200		1350



OFFSHORE OPTIONS

- | | |
|---------------------------------------|------------------------------------|
| ≡ Halogen free cables and insulation | ≡ Certified lifting lugs RUD |
| ≡ 316L chassis | ≡ Special voltage |
| ≡ M-501 Panting | ≡ High ambient temperature version |
| ≡ Air cooled inverter ATEX gas cooler | ≡ FAT |
| ≡ Seawater cooled gas cooler | ≡ Offshore commissioning |

IKM HVAC has produced more than 600 special adapted CO₂ systems since 2008. The systems are project-adapted for cooling, freezing and climate applications. For commercial, industry, agriculture, fishing -industry and specialized systems for offshore and marine



CO₂ Condensing unit



Computer room AC



**IKM
HVAC AS**

Our focus is growth

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