

ITALIAN  
COOLING  
SOLUTIONS

 HiRef

# CCAC & HDC PRODUCT LINE

2019

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HF65000080 Rev.D

# CCAC & HDC PRODUCT LINE 2019



	VERSION	REFRIGERANT	COOLING CAPACITY	AIR DISTRIBUTION
<b>DIRECT EXPANSION CLOSE CONTROL AIR CONDITIONING UNIT WITH RADIAL FANS AND SCROLL COMPRESSORS</b>				
<b>JREF DX</b>	DX	R-410A R-407C R-134a	7 - 25 (kW)	DOWNFLOW UPFLOW DISPLACEMENT
<b>CHILLED WATER CLOSE CONTROL AIR CONDITIONING UNIT WITH RADIAL FANS</b>				
<b>JREF CW</b>	CW	WATER	18 - 33 (kW)	DOWNFLOW UPFLOW DISPLACEMENT
<b>DIRECT EXPANSION CLOSE CONTROL AIR CONDITIONING UNIT WITH CENTRIFUGAL FANS AND SCROLL COMPRESSORS</b>				
<b>JREF C DX</b>	DX	R-410A R-407C R-134a	8 - 25 (kW)	DOWNFLOW UPFLOW DISPLACEMENT
<b>CHILLED WATER CLOSE CONTROL AIR CONDITIONING UNIT WITH CENTRIFUGAL FANS</b>				
<b>JREF C CW</b>	CW	WATER	9 - 24 (kW)	DOWNFLOW UPFLOW DISPLACEMENT
<b>DUAL COOLING CLOSE CONTROL AIR CONDITIONING UNIT WITH RADIAL FANS AND SCROLL COMPRESSORS</b>				
<b>JREF DUAL COOLING</b>	DX + CW	R-410A R-407C R-134a WATER	12 - 20 (kW) DX 18 - 23 (kW) CW	DOWNFLOW UPFLOW DISPLACEMENT
<b>INDIRECT FREE COOLING CLOSE CONTROL AIR CONDITIONING UNIT WITH RADIAL FANS AND SCROLL COMPRESSORS</b>				
<b>JREF FREE-COOLING</b>	CW	R-410A R-407C R-134a WATER	12 - 21 (kW)	DOWNFLOW UPFLOW DISPLACEMENT
<b>INVERTER DRIVEN CLOSE CONTROL AIR CONDITIONING UNIT WITH BLDC SCROLL COMPRESSORS</b>				
<b>NRG 2.0</b>	DX	R-410A	10 - 143 (kW)	DOWNFLOW UPFLOW DISPLACEMENT
<b>DIRECT EXPANSION CLOSE CONTROL AIR CONDITIONING UNIT WITH A1 REFRIGERANT</b>				
<b>TREF DX A1</b>	DX	R-410A R-407C R-134a R-513A	27 - 142 (kW)	DOWNFLOW UPFLOW DISPLACEMENT
<b>CHILLED WATER CLOSE CONTROL AIR CONDITIONING UNIT</b>				
<b>TREF CW</b>	CW	WATER	31 - 217 (kW)	DOWNFLOW UPFLOW DISPLACEMENT
<b>DUAL COOLING CLOSE CONTROL AIR CONDITIONING UNIT WITH RADIAL FANS AND SCROLL COMPRESSORS</b>				
<b>TREF DUAL COOLING</b>	DX + CW	R-410A R-407C R-134a WATER	24 - 131 (kW) DX 30 - 128 (kW) CW	DOWNFLOW UPFLOW DISPLACEMENT
<b>INDIRECT FREE COOLING CLOSE CONTROL AIR CONDITIONING UNIT WITH RADIAL FANS AND SCROLL COMPRESSORS</b>				
<b>TREF FREE-COOLING</b>	DX	R-410A R-407C R-134a WATER	24 - 131 (kW)	DOWNFLOW UPFLOW DISPLACEMENT
<b>DIRECT EXPANSION CLOSE CONTROL AIR CONDITIONING UNIT WITH A2L REFRIGERANT</b>				
<b>TREF DX A2L</b>	DX	R-1234ze R-454B	27 - 142 (kW)	DOWNFLOW UPFLOW DISPLACEMENT

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**COOLING CAPACITY**  
 CCAC & HDC DX: Inlet air condition 30°C, 35% r.h.; condensation temperature 45°C  
 CCAC & HDC CW: Inlet air condition 30°C, 35% r.h, Tw = 10/15 °C

CCAC

CCAC

HDC

VERSION	REFRIGERANT	COOLING CAPACITY	AIR DISTRIBUTION	
<b>CHILLED WATER UNDERFLOOR CLOSE CONTROL UNIT</b>				
CW	WATER	40 - 200 (kW)	DOWNFLOW	<b>HBCV</b>
<b>UNDERFLOOR FAN CLOSE CONTROL UNIT</b>				
CW	WATER	69 - 256 (kW)	DOWNFLOW	<b>SCDR</b>
<b>UNDERFLOOR FAN CLOSE CONTROL UNIT</b>				
CW	WATER	81 - 334 (kW)	DOWNFLOW	<b>FCDR</b>
<b>INDIRECT FREE COOLING UNIT WITH ADIABATIC COOLING</b>				
DX CW	R-410A	10 - 330 (kW)	DOWNFLOW	<b>HDB</b>
<b>ATOMISED WATER PRODUCTION</b>				
<b>HIGH PRECISION ULTRASONIC HUMIDIFIER WITH EC FANS</b>				
0 - 28 (kg/h)			DOWNFLOW	<b>HHM</b>
<b>19" HIGH DENSITY COOLING UNIT WITH ROTARY OR BLDC TWIN ROTARY COMPRESSORS</b>				
DX	R-410A	3.6 - 7.9 (kW)	IN-RACK	<b>MRAC</b>
<b>MONOBLOC RACK COOLING UNIT WITH SCROLL COMPRESSORS</b>				
DX	R-410A	6 - 10 (kW)	IN RACK IN ROW	<b>HRCM</b>
<b>TURN-KEY IN-RACK COOLING SOLUTIONS FOR HIGH DENSITY APPLICATIONS</b>				
DX	R-410A	6 - 13 (kW)	IN RACK	<b>HRCB</b>
<b>HIGH DENSITY COOLING UNIT WITH BLDC SCROLL COMPRESSORS</b>				
DX	R-410A	13 - 48 (kW)	IN RACK IN ROW	<b>NRCD-V</b>
<b>CO<sub>2</sub> HIGH DENSITY COOLING UNIT</b>				
DX	R-744	25 - 50 (kW)	IN RACK IN ROW	<b>HRCO</b>
<b>CHILLED WATER HIGH DENSITY COOLING UNIT</b>				
CW	WATER	20 - 57 (kW)	IN RACK IN ROW	<b>HRCC</b>
<b>HIGH DENSITY MODULAR SOLUTION</b>				
DX CW		10 - ... (kW)	IN RACK IN ROW	<b>DATABOX</b>



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Technical data are subject to change without notice. Please do not use these data for the design phase.