

Model

Designation **CU NLE8.8CN R290 230/1/50 CAP**



Sales code: 314H5000
Engineering code: CUNLE88CN0CE

Application Data

Power supply 220-240V / 50Hz 1~
Refrigerants R290
Refr. charge - tech. limit 150g / 5,3oz
Starter HST / capillary tube or expansion valve
Sound pressure (10m) 27,1dB(A)

Generic data

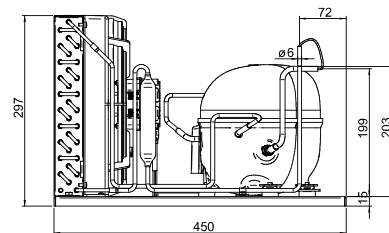
Voltage range 198 - 254V / 50Hz
Refrigerant R290
Application LBP+MBP

Rated performance pe=-10°C, Tsuc=20°C, Tamb=25°C, subcooling: 2K
Cooling capacity 737W / 2518Btu/h
Power consumption 314,6W
Current consumption 1,9A
COP/EER 2,34 / 8,01Btu/Wh

Approvals Eco design (EU) 2015/1095,
CE, UK CA, VDE

Compressor

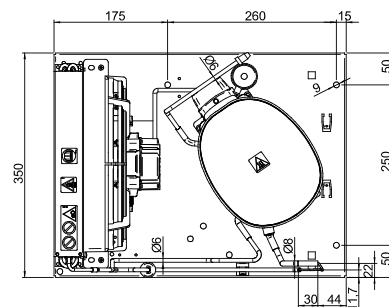
Designation **NLE8.8CN**
Motor configuration CSIR
Locked rotor amperage 11,3A
Rated load amperage 2,15A
Winding resistance main 9,28Ω
Winding resistance aux 11,64Ω
Oil quantity 270cm³ / 9,1fl.oz
Oil type POE
Horsepower rating 3/8 HP



Dimensions

Condensing unit

Height x Width x Depth 297 x 350 x 450 [mm] / 11,7 x 13,8 x 17,7 [in]
Weight 17,9kg / 39,4lbs
Suction adapter OD ø8mm / 1/3in
Discharge adapter OD ø6mm / 1/4in
Process connector ø6,2mm / 0,24in



Package data

Height x Width x Depth 340 x 372 x 570 [mm] / 13,4 x 14,6 x 22,4 [in]
Weight 20,9kg / 46lbs

Model

Designation **CU NLE8.8CN R290 230/1/50 CAP**

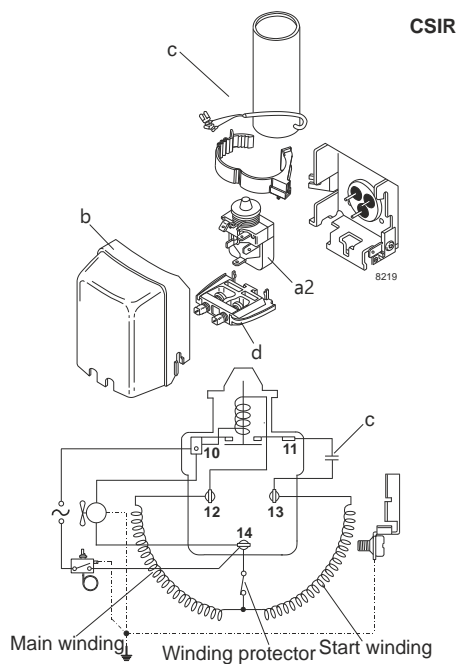
Sales code: 314H5000
Engineering code: CUNLE88CN0CE

Components Condensing-Unit / Spare Parts

Component	Type	Spare part code number
Compressor code	NLE8.8CN	105H6880
Condenser	Condenser (3 rows x 11 tubes)	1130270F10
Fan motor	14W	62010150
Blade code	ø254mm 28°	A254-28
Air flow	551,4m³/h	
Receiver code	not installed	-/-
Suction valve code	OD ø8mm / 1/3in	-/-
Liquid valve code	OD ø6mm / 1/4in	-/-

Compressor starting equipment	Spare part code number
pos. a2 - relay	117U7002
pos. c - start capacitor (80µF)	117U5015
pos. b - plastic cover	103N0491
pos. d - cord relief	103N1010

Wiring Sketch Compressor



Model

Designation **CU NLE8.8CN R290 230/1/50 CAP**

Sales code: 314H5000

Engineering code: CUNLE88CN0CE

Cooling performance - Conf. 1

Power supply	220-240V / 50Hz 1~	Voltage range	198 - 254V / 50Hz
Refr. charge - tech. limit	150g / 5,3oz		
Starter	HST / capillary tube or expansion valve		
Motor configuration	CSIR		
Refrigerant	R290		
Application	LBP+MBP		
Approvals	Eco design (EU) 2015/1095, CE, UK CA, VDE		

ambient temperature	[°C / °F]	25 / 77 (suction gas temperature [°C / °F]: 20 / 68, subcooling: 2K)						
evaporating temperature	[°C / °F]	-35 / -31	-30 / -22	-25 / -13	-20 / -4	-10 / 14	0 / 32	10 / 50
cooling capacity	[W]	253	321	404	501	737	1023	1349
COP	[W/W]	1,25	1,43	1,65	1,87	2,34	2,82	3,26
cooling capacity	[Btu/h]	866	1098	1380	1712	2518	3494	4608
power consumption	[W]	203	224	245	268	315	363	414
current consumption	[A]	1,6	1,6	1,7	1,8	1,9	2,1	2,3

ambient temperature	[°C / °F]	32 / 90 (suction gas temperature [°C / °F]: 20 / 68, subcooling: 2K)						
evaporating temperature	[°C / °F]	-35 / -31	-30 / -22	-25 / -13	-20 / -4	-10 / 14	0 / 32	10 / 50
cooling capacity	[W]	263	324	397	482	688	938	1226
COP	[W/W]	1,21	1,36	1,51	1,68	2,02	2,36	2,65
cooling capacity	[Btu/h]	897	1106	1355	1645	2348	3204	4186
power consumption	[W]	217	239	263	287	340	398	462
current consumption	[A]	1,6	1,7	1,8	1,8	2	2,2	2,5

ambient temperature	[°C / °F]	38 / 100 (suction gas temperature [°C / °F]: 20 / 68, subcooling: 2K)						
evaporating temperature	[°C / °F]	-35 / -31	-30 / -22	-25 / -13	-20 / -4	-10 / 14	0 / 32	10 / 50
cooling capacity	[W]	247	304	372	449	634	859	1118
COP	[W/W]	1,11	1,24	1,37	1,5	1,76	2	2,21
cooling capacity	[Btu/h]	843	1039	1269	1533	2166	2934	3820
power consumption	[W]	222	246	272	300	361	429	505
current consumption	[A]	1,6	1,7	1,8	1,9	2,1	2,4	2,7

ambient temperature	[°C / °F]	43 / 109 (suction gas temperature [°C / °F]: 20 / 68, subcooling: 2K)						
evaporating temperature	[°C / °F]	-35 / -31	-30 / -22	-25 / -13	-20 / -4	-10 / 14	0 / 32	10 / 50
cooling capacity	[W]	223	279	343	415	586	793	1031
COP	[W/W]	1	1,12	1,23	1,34	1,55	1,74	1,9
cooling capacity	[Btu/h]	763	953	1170	1417	2002	2708	3519
power consumption	[W]	222	249	278	309	377	455	543
current consumption	[A]	1,6	1,7	1,8	1,9	2,2	2,5	2,8