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soluções

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# condensing Units



c o o l i n g s o l u t i o n s

# Condensing Units



Embraco Cooling Solutions is proud to introduce the new EMBRACO ARMONIA of Condensing Units suitable for outdoor use.

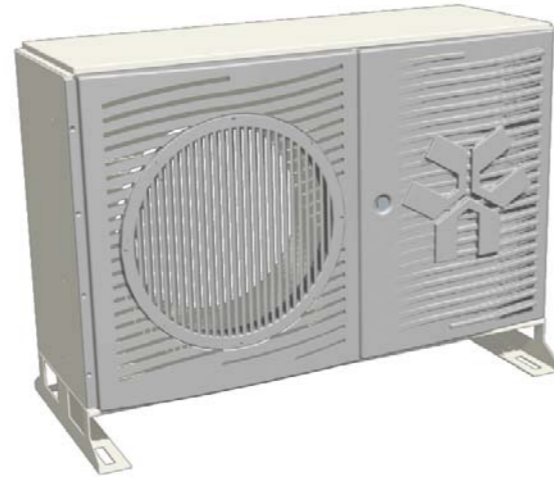
The product is designed to offer compact dimensions, easy installation and maintenance. The external case comprises corrosion resistant metal components, painting and weather resistant plastics which provide a pleasant finish.

The unit offers the installer the possibility of directing the outgoing air flow into any desired direction.

Low sound level assures a quiet environment and the last generation of top efficiency compressor and fan motor technology are combined with robust design for heavy duty conditions.

Moreover EMBRACO ARMONIA (uses two compressors) Condensing:

- Extended cooling capacity: 2; 2 1/2; 3; 3 1/4 HP
- Higher energy saving than conventional condensing units using new fan motor technology
- Reduction of starting current (by starting each compressor separately)



## Performance table for EMBRACO ARMONIA (uses one compressor)

Application	Refrigerant	Model	Voltage	Phases	HP	Colling Capacity (Evaporating Temperature °C)										Sound dB(A) at 10m	Inlet Tube Diameter mm	Outlet Tube Diameter mm	Receiver Volume l			
						-40	-35	-30	-25	-20	-15	-10	-5	0	5					10		
LBP	R-22	UNJ2178E	220-240V/50Hz	1	1 1/5				779	965	1221	1547	1942					30.7	10	8	2.3	
		UNJ2190E	220-240V/50Hz	1	1 1/3				802	1186	1387	1789	2132					32.0	12	8	2.3	
	R-404A/ R-507	UNT2178GK	220-240V/50Hz	1	1 1/6	437	586	753	947	1165	1410	1693						30.7	8	6	2.3	
		UT2178GK	220-240V/50Hz	1	1 1/6	437	586	753	947	1165	1410	1693						30.7	8	6	2.3	
		UNT2180GK	220-240V/50Hz	1	1 1/4	450	610	790	1000	1240	1508	1873						30.7	8	6	2.3	
		UT2180GK	220-240V/50Hz	1	1 1/4	450	610	790	1000	1240	1508	1873						30.7	8	6	2.3	
		UNT2192GK	220-240V/50Hz	1	1 1/2-	480	648	867	1152	1455	1788	2151						30.7	12	8	2.3	
		UNJ2192GK	220-240V/50Hz	1	1 1/2-	480	648	867	1152	1455	1788	2151						30.7	12	8	2.3	
		UNJ2212GK	220-240V/50Hz	1	1 3/4	652	939	1232	1593	1935	2329	2761						32.0	12	8	2.3	
UNJ2212GS	380-420V/50Hz	3	1 3/4	652	939	1232	1593	1935	2329	2761						32.0	12	8	2.3			
M/HBP	R-22	UNJ9226E	220-240V/50Hz	1	1-							1580	1899	2202	2555	2900	3356	31.9	10	8	2.3	
		UNJ9226P	380-420V/50Hz	3	1-								1580	1899	2202	2555	2900	3356	31.9	10	8	2.3
		UNJ9232E	220-240V/50Hz	1	1 1/4								1896	2280	2643	3066	3480	4036	34.0	12	8	2.3
		UNJ9232P	380-420V/50Hz	3	1 1/4								1896	2280	2643	3066	3480	4036	34.0	12	8	2.3
		UNJ9238E	220-240V/50Hz	1	1 1/2								2190	2565	3028	3378	4216	4940	35.0	12	8	2.3
		UNJ9238P	380-420V/50Hz	3	1 1/2								2190	2565	3028	3378	4216	4940	35.0	12	8	2.3
	R-404A/ R-507	UNT6226GK	220-240V/50Hz	1	1-								1297	1549	1862	2159	2505	2843	31.9	10	8	2.3
		UNJ9226GK	220-240V/50Hz	1	1-								1297	1549	1862	2159	2505	2843	31.9	10	8	2.3
		UNJ9226GS	380-420V/50Hz	3	1-								1297	1549	1862	2159	2505	2843	31.9	10	8	2.3
		UNJ9232GK	220-240V/50Hz	1	1 1/4								1557	1859	2235	2591	3006	3412	34.0	12	8	2.3
		UNJ9232GS	380-420V/50Hz	3	1 1/4								1557	1859	2235	2591	3006	3412	34.0	12	8	2.3
		UNJ9238GK	220-240V/50Hz	1	1 1/2								1865	2147	2515	2969	3508	4133	35.0	12	8	2.3
UNJ9238GS	380-420V/50Hz	3	1 1/2								1865	2147	2515	2969	3508	4133	35.0	12	8	2.3		

General dimensions (length, width, height) [mm]: 1000 x 428 x 728 (all models).

Test conditions: Ambient 32°C / Subcooling 3°C / Gas return 32°C.

\* Warning: All data is subject to change without notice.

## Unit Features

- Maximum ambient temperature: 43°C
- Included components
  - In/out shut-off valves
  - High pressure/Low pressure pressostat
  - Sight glass
  - Drier
  - Crankcase heater
  - Contactor with terminal board inside Electrical box IP54
  - Fan speed controller
- The following accessories are available upon request:
  - Oil separator
  - Suction accumulator
  - Delay timer on start up for EMBRACO ARMONIA (uses two compressors)



## Performance table for EMBRACO ARMONIA (uses two compressors)

Application	Refrigerant	Model	Voltage	Phases	HP	Colling Capacity (Evaporating Temperature °C)										Sound dB(A) at 10m	Inlet Tube Diameter mm	Outlet Tube Diameter mm	Receiver Volume l					
						-40	-35	-30	-25	-20	-15	-10	-5	0	5					10				
LBP	R-404A/ R-507	UGHNJ2212GK	220-240V/50Hz	1	3 1/4	1094	1684	2250	2872	3383	3907	4420						41	5/8	3/8	3.9			
		UGHNJ2212GS	380-420V/50Hz	3	3 1/4	1094	1684	2250	2872	3383	3907	4420						41	5/8	3/8	3.9			
M/HBP	R-22	UGHNJ9226E	220-240V/50Hz	1	2								2834	3468	3970	4468	4865	5373	44	5/8	3/8	3.9		
		UGHNJ9226P	380-420V/50Hz	3	2									2834	3468	3970	4468	4865	5373	44	5/8	3/8	3.9	
		UGHNJ9232E	220-240V/50Hz	1	2 1/2									3401	4164	4765	5361	5838	6461	45	5/8	3/8	3.9	
		UGHNJ9232P	380-420V/50Hz	3	2 1/2									3401	4164	4765	5361	5838	6461	45	5/8	3/8	3.9	
		UGHNJ9238E	220-240V/50Hz	1	3									3928	4684	5459	5907	7073	7908	45	5/8	3/8	3.9	
		UGHNJ9238P	380-420V/50Hz	3	3									3928	4684	5459	5907	7073	7908	45	5/8	3/8	3.9	
	R-404A/ R-507	UGHNJ9226GK	220-240V/50Hz	1	2									2176	2778	3400	3893	4380	4770	5267	44	5/8	3/8	3.9
		UGHNJ9226GS	380-420V/50Hz	3	2									2176	2778	3400	3893	4380	4770	5267	44	5/8	3/8	3.9
		UGHNJ9232GK	220-240V/50Hz	1	2 1/2									2612	3334	4082	4671	5256	5724	6335	45	5/8	3/8	3.9
		UGHNJ9232GS	380-420V/50Hz	3	2 1/2									2612	3334	4082	4671	5256	5724	6335	45	5/8	3/8	3.9
R-404A/ R-507	UGHNJ9238GK	220-240V/50Hz	1	3									3129	3851	4593	5353	6134	6934	7753	45	5/8	3/8	3.9	
	UGHNJ9238GS	380-420V/50Hz	3	3									3129	3851	4593	5353	6134	6934	7753	45	5/8	3/8	3.9	

General dimensions (length, width, height) [mm]: 1205 x 532 x 735 (all models).

Test conditions: Ambient 32°C / Subcooling 3°C / Gas return 32°C.

\* Warning: All data is subject to change without notice.

**Attention:** After replacement the condensing unit and its accessories must be handled and recycled according to the material group (ferrous, non-ferrous, polymers, oils, ...) directives. These recommendations are intended to minimize the adverse impacts on the environment.