

**INDUSTRIAL PRODUCT LINE**

The industrial air cooled FLCU “FriconUSA Large Size Condensing Units” are designed for continuous heavy-duty work to meet most of the demands in the industrial refrigeration sector.

The most common applications are for large cold storage, blast freezers, IQF, block or flake ice makers, thermal ice storage, etc.

Application Temperature:

“H” High/Medium: +55°F (+12.8°C) to +5°F (-15°C) SST. R-134a

“M” Medium: +35°F (+1.7°C) to 0°F (-18°C) SST. R-134a

“L” Low: +5°F (-15°C) to -50°F (-45.6°C) SST. R-404a/R-507a

**STANDARD FEATURES AND BENEFITS:**

- Galvanized steel base, condenser with strong aluminum structure and high efficiency aluminum micro-channel coils, lower weight and size; reduces the costs of transportation, installation and construction.
- EcoFriendly; Micro-channel coil with internal volume reduced requires between 40% to 60% less refrigerant charge and results in a significant reduction of the refrigerant charge necessary for normal or flooded operations.
- Quiet Fans; external rotor motor with large wing curve impeller cast aluminum, rotating at medium speed, combined with optimized venturi plate provide the best performance in air volume, low power consumption and noise reduction available in the refrigeration industry .
- Quiet, standard efficiency AC type fan with two speeds.
- Built-in electric panel for compressor and condenser fans.
- Electronic control system.
- Economizer with electronic expansion valve.
- Horizontal liquid receiver.
- Suction accumulator with heat exchange.
- Oil separator and replaceable oil filter.
- Thermosyphon Liquid injection Oil Cooling System
- Refrigerants: R-134a, R-404a, R-717 (Ammonia)
- Power 208-230 or 460 volt / 3 phase / 50-60 HZ
- Control 230 volt / 1 phase / 60 HZ
- 2 year warranty.

**OPTIONAL:**

- Ball valves in each section of micro-channel condenser (input and output).
  - Micro-channel with E-Coat for greater resistance to corrosion.
  - Protective mesh.
  - VFD (variable frequency drive) for compressor.
  - Variable speed, high efficiency EC type fan.
  - Thermosyphon Oil Cooling System\*
- \*Recommended for "L" application in operation under -15°F SST*

**FLCU “L” LOW**

**LARGE SIZE CONDENSING UNIT**

**AIR COOLED - SCREW COMPRESSOR**

**“L” LOW TEMP. : +5°F (-15°C) TO -50°F (-46°C) SST**

**SINGLE COMPRESSOR, CAPACITY RANGE: 30 HP TO 150 HP**



**"L" LOW APPLICATION**

**TEMPERATURE: +5°F (-15°C) TO -50°F (-46°C) SST R404A**

*Performance based on Carlyle Screw Compressor*

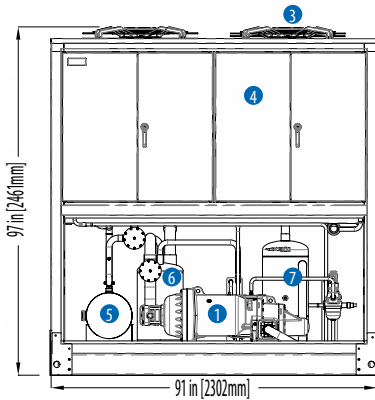
MODEL		COMPRESSOR		FAN		CAPACITIES OF EVAPORATION MBTUH AT 95°F AMBIENT R-404A								ELECTRICAL DATA 60HZ				MECHANICAL DATA					
		QTY	CARLYLE	QTY	EC TYPE	+5°F	0°F	-15°F	-20°F	-30°F	-40°F	-45°F	-50°F	230 VOLT		460 VOLT		CONNECTIONS		APPROXIMATE WEIGHT			
MODEL	CFM		RLA COMP.		MCA									RLA COMP.	MCA	LIQUID	SUCTION	LB	(KG)				
UNIT	HP				-15°C	-18°C	-26°C	-29°C	-35°C	-40°C	-43°C	-46°C					IN.	(MM)	IN.	(MM)			
0300-L-S	30	1	06TRF 065	3	39750	253.5	228.3	172.9	157.5	127.7	100.8	90.4	78.0	108.8	158.4	52.8	78.4	7/8	(22)	2 1/8	(54)	2,173	(988)
0350-L-S	35	1	06TRG 078	3	39750	293.9	269.2	206.1	189.0	154.4	121.7	108.2	93.2	128.0	182.4	62.4	90.4	7/8	(22)	2 1/8	(54)	2,173	(988)
0400-L-S	40	1	06TRH 088	4	53000	340.2	313.1	239.7	218.5	178.5	141.2	125.0	107.7	144.0	209.9	72.0	106.5	7/8	(22)	2 1/8	(54)	2,405	(1,093)
0600-L-S	60	1	06TSR 137	4	53000	418.1	384.9	291.9	264.5	212.2	163.5	139.7	119.1	203.0	283.7	101.0	142.7	1 1/8	(28)	2 5/8	(67)	3,277	(1,490)
0700-L-S	75	1	06TSR 155	4	53000	446.1	412.8	316.8	289.3	234.0	181.3	158.2	133.9	217.0	301.2	108.0	151.5	1 1/8	(28)	2 5/8	(67)	3,304	(1,502)
0750-L-S	75	1	06TSR 186	5	66250	514.6	476.4	373.3	347.8	285.1	224.6	197.9	171.9	249.0	348.7	124.0	175.6	1 1/8	(28)	2 5/8	(67)	3,889	(1,768)
1200-L-S	120	1	06TR 266	6	79500	820.7	751.1	570.3	525.3	420.4	325.2	284.4	242.6	380.0	519.9	190.0	262.2	1 3/8	(35)	3 1/8	(80)	4,670	(2,123)
1300-L-S	130	1	06TR 301	7	92750	958.1	885.5	680.2	622.5	505.1	391.3	340.4	295.3	421.0	578.6	210.0	291.3	1 5/8	(42)	3 5/8	(80)	5,278	(2,399)
1500-L-S	150	1	06TR 366	8	106000	1081.8	994.8	774.5	718.1	590.3	465.9	403.3	356.2	475.0	653.6	238.0	330.5	1 5/8	(42)	3 5/8	(80)	6,205	(2,820)

RLA Compressor: Rated Load Amp Compressor

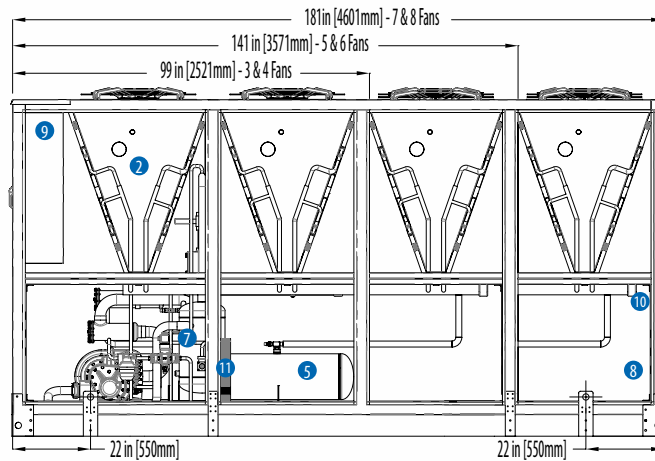
MCA: Minimum Circuit Amps (RLA compressor x 1.25 + FLA fans)

FLA Fan: Full Load Amps Fan

**FRONT VIEW**



**SIDE VIEW - FROM 3 TO 8 FANS**



1. Compressor
2. Micro-Channel Condenser
3. Fan
4. Control Panel
5. Liquid Receiver
6. Suction Accumulator
7. Oil Separator
8. Mesh protection (optional)
9. Electrical Connection
10. Suction & Liquid Pipe Connection
11. Economizer

**NOMENCLATURE**

<p><b>F:</b> "FRICONUSA"  <b>L:</b> LARGE  <b>C:</b> CONDENSING  <b>U:</b> UNIT</p>	<p><b>FLCU 0700 L S A MX C 13 2</b></p>	<p><b>ELECTRICAL DATA</b>                  1: 208-230V / 3PH / 60HZ                  2: 460V / 3PH / 60HZ                  3: 575V / 3PH / 60HZ                  4: 220V / 3PH / 50HZ                  5: 380V / 3PH / 50HZ                  9: "S" SPECIAL VOLTAGE</p>
<p><b>SIZE / CAPACITY*</b></p> <p>0300: 30HP    0600: 60HP    1200: 120HP                  0350: 35HP    0700: 75HP    1300: 130HP                  0400: 40HP    0750: 75HP    1500: 150HP</p>		<p><b>REFRIGERANT</b>                  13: R-134a**                  44: R-404a***                  57: R-507a***</p>
<p><b>APPLICATIONS</b>  <b>H:</b> HIGH/MEDIUM: +55°F (+12.8°C) TO +5°F (-15°C) SST  <b>M:</b> MEDIUM: +35°F (+1.7°C) TO 0°F (-18°C) SST  <b>L:</b> LOW: +5°F (-15°C) TO -50°F (-45.6°C) SST</p>		<p><b>COMPRESSOR</b>  <b>B:</b> BITZER SCREW  <b>C:</b> CARLYLE SCREW</p>
<p><b>CHARACTERISTICS (COMPRESSOR QUANTITY)</b>  <b>S:</b> SINGLE COMPRESSOR  <b>D:</b> DUAL PARALLEL COMPRESSORES</p>		<p><b>COIL</b>  <b>ME:</b> MICROCHANNEL PANEL WITH E-COAT FINISHING  <b>MX:</b> MICROCHANNEL PANEL IN NATURAL ALUMINUM</p>
<p>*Sizes / Capacities may change depending on the compressor brand                  **Only for applications "H" and "M"                  *** Only for application "L"</p>		<p><b>CONDENSER TYPE</b>  <b>A:</b> AIR COOLED CONDENSER  <b>H:</b> HYBRID CONDENSER (ADIABATIC)  <b>W:</b> WATER COOLED CONDENSER</p>