FRICON USA
THE NEW REFRIGERATION AGE

FLCU "M" MEDIUM

LARGE SIZE CONDENSING UNIT

AIR COOLED - SCREW COMPRESSOR

"M" MEDIUM TEMP. : +35°F (+1.7°C) TO 0°F(-18°C) SST
SINGLE COMPRESSOR, CAPACITY RANGE: 60 HP TO 340 HP

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 cooling large cold rooms, blast coolers or continuous rapid cooling tunnels, block or flake ice making machines, thermal ice storage, glycol chillers, hydro-coolers, 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 panel 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.
- Liquid injection Oil Cooling System.
- Refrigerantes: R-134a for "H" & "M" applications. R-404a / R-507a for "L" application.
- Power 208-230 o 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 finishing for greater resistance to corrosion.
- Protective mesh.
- VFD (variable frequency drive) for compressor.
- Variable speed, high efficiency EC type fan.

ECOFriendly BY FRICONUSA

Powered by: Carlyle

MADE IN THE USA

c UL us LISTED 508A

TECHNICAL DATA — SINGLE COMPRESSOR

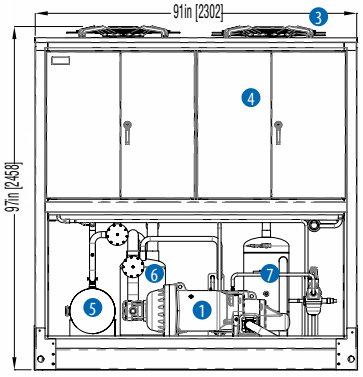
"M" MEDIUM APPLICATION — TEMPERATURE: +35°F (+1.7°C) TO 0°F(-18°C) SST

Performance based on Carlyle Screw Compressor

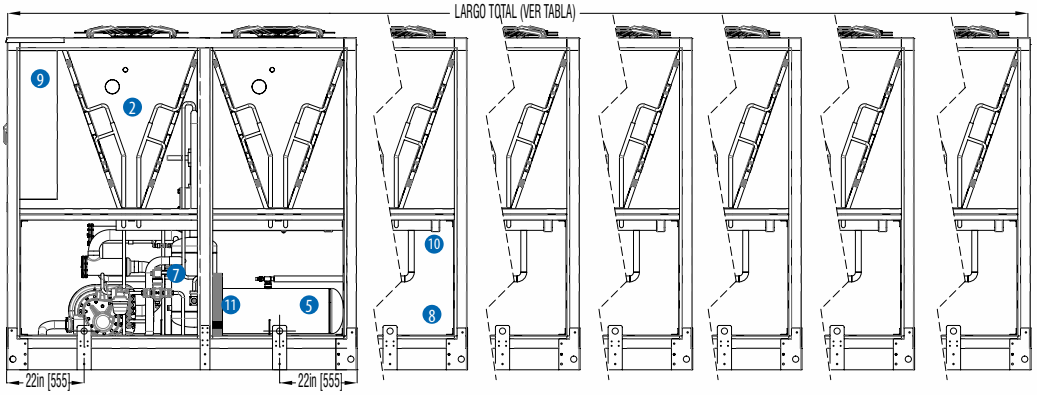
MODEL		COMPRESSOR		FAN		CAPACITIES OF EVAPORATION MBTUH AT 95°F AMBIENT R-134A								ELECRICAL DATA 60HZ				MECHANICAL DATA					
														230 VOLT		460 VOLT		CONNECTIONS				TOTAL LENGTH		APROXIMATE WEIGHT	
SIZE		QTY	CARLYLE	QTY	EC TYPE	+35F	+30F	+25F	+20F	+15F	+10F	+5F	+0F	RLA COMP.	MCA	RLA COMP.	MCA	IN.	(MM)	IN.	(MM)				
UNIT	HP		MODEL		CFM	+1.7C	-1.1C	-3.9C	-6.7C	-9.4C	-12.2C	-15C	-18C					LIQUID		SUCTION		IN.	(MM)	LB	(KG)
0600-M-S	60	1	06TSA 137	3	39750	494.2	451.7	412.1	375.2	339.0	305.4	276.0	247.5	178.0	244.9	89.0	123.6	1 3/8	(35)	3 1/8	(79)	98.46	(2501)	3,328	(1,513)
0700-M-S	75	1	06TSA 155	3	39750	558.4	514.1	467.7	427.8	384.8	345.2	308.8	273.1	200.0	272.4	100.0	137.4	1 3/8	(35)	3 1/8	(79)	98.46	(2501)	3,328	(1,513)
0750-M-S	75	1	06TSA 186	3	39750	634.7	584.3	535.3	489.4	444.0	405.5	369.5	337.8	233.0	313.7	116.0	157.4	1 3/8	(35)	3 1/8	(79)	98.46	(2501)	3,724	(1,693)
1200-M-S	120	1	06TTA 266	5	66250	1009.7	930.9	858.5	776.4	702.9	630.3	561.6	490.5	330.0	449.9	165.0	226.9	1 5/8	(41)	4	(102)	139.80	(3551)	4,256	(1,935)
1400-M-S	150	1	06TTA 301	6	79500	1145.8	1045.7	955.1	867.2	777.5	696.3	615.1	541.1	375.0	513.6	187.0	258.5	1 5/8	(41)	4	(102)	139.80	(3551)	4,488	(2,040)
1500-M-S	150	1	06TTA 356	7	92750	1374.6	1266.4	1153.6	1051.0	951.3	852.8	760.1	669.6	452.0	617.4	226.0	311.3	1 5/8	(41)	4	(102)	181.14	(4601)	5,329	(2,422)
2000-M-S	225	1	06TUA 483	8	106000	1769.5	1633.8	1489.0	1350.9	1219.9	1090.7	970.1	852.3	628.0	844.8	314.0	425.5	2 1/8	(54)	5	(127)	181.14	(4601)	5,743	(2,610)
2250-M-S	225	1	06TUA 554	10	132500	2011.1	1852.7	1698.8	1451.4	1399.3	1256.7	1128.6	1002.5	720.0	974.8	360.0	491.2	2 1/8	(54)	5	(127)	222.48	(5651)	6,766	(3,075)
3000-M-S	340	1	06TVA 680	13	172250	2610.3	2393.7	2184.5	1980.4	1787.8	1604.1	1427.7	1263.2			462.0	631.1	2 5/8	(67)	6	(152)	255.69	(6494)	8,396	(3,816)
3200-M-S	340	1	06TVA 753	14	185500	2834.1	2586.5	2360.7	2135.7	1927.1	1739.3	1563.0	1401.0	N/A		506.0	690.2	2 5/8	(67)	6	(152)	255.69	(6494)	8,651	(3,932)
3400-M-S	340	1	06TVA 819	15	198750	3065.2	2827.2	2576.1	2348.0	2120.2	1909.9	1699.8	1502.1			517.0	708.1	2 5/8	(67)	6	(152)	346.49	(8801)	9,115	(4,143)

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 19 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

F: "FRICONUSA"
L: LARGE
C: CONDENSING
U: UNIT

FLCU | 0700 | M | S | A | MX | C | 13 | 2

SIZE / CAPACITY*
0600: 60HP **1200:** 120HP **2000:** 200HP **3200:** 340HP
0700: 75HP **1400:** 150HP **2250:** 225HP **3400:** 340HP
0750: 75HP **1500:** 150HP **3000:** 340HP

APPLICATIONS
H: HIGH/MEDIUM: +55°F (+12.8°C) TO +5°F(-15°C) SST
M: MEDIUM: +35F (+1.7°C) TO 0°F(-18°C) SST
L: LOW: +5°F (-15°C) TO -50°F (-45.6°C) SST

CHARACTERISTICS (COMPRESSOR QUANTITY)
S: SINGLE COMPRESSOR
D: DUAL PARALLEL COMPRESORES

ELECTRICAL DATA
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

REFRIGERANT
13: R-134a**
44: R-404a***
57: R-507a***
77: R-717 (AMMONIA)
S: CLIENT SPECIFICATION

COMPRESSOR
B: BITZER *SCREW*
C: CARLYLE *SCREW*

COIL
ME: MICROCHANNEL PANEL WITH E-COAT FINISHING
MX: MICROCHANNEL PANEL IN NATURAL ALUMINUM

CONDENSER TYPE
A: AIR COOLED CONDENSER
H: HYBRID CONDENSER (ADIABATIC)
W: WATER COOLED CONDENSER

**Sizes / Capacities may change depending on the compressor brand*
Only for applications "H" and "M"* * Only for application "L"*

CORPORATE OFFICE: 4362 Thurmon Tanner Parkway / Flowery Branch, GA 30542 / USA / Tel.: + 1-678-714-6991 / Fax: +1-678-714-2357 / Toll Free: 1-855-374-2660
VENEZUELA: (0251) 710 5067 / **COLOMBIA:** (1) 381 9070 / **MEXICO:** (55) 4161 3805 / **DOMINICAN REPUBLIC:** (829) 954 8425 / **PERU:** (1) 705 6209
info@friconusa.com / www.friconusa.com

FRICON USA