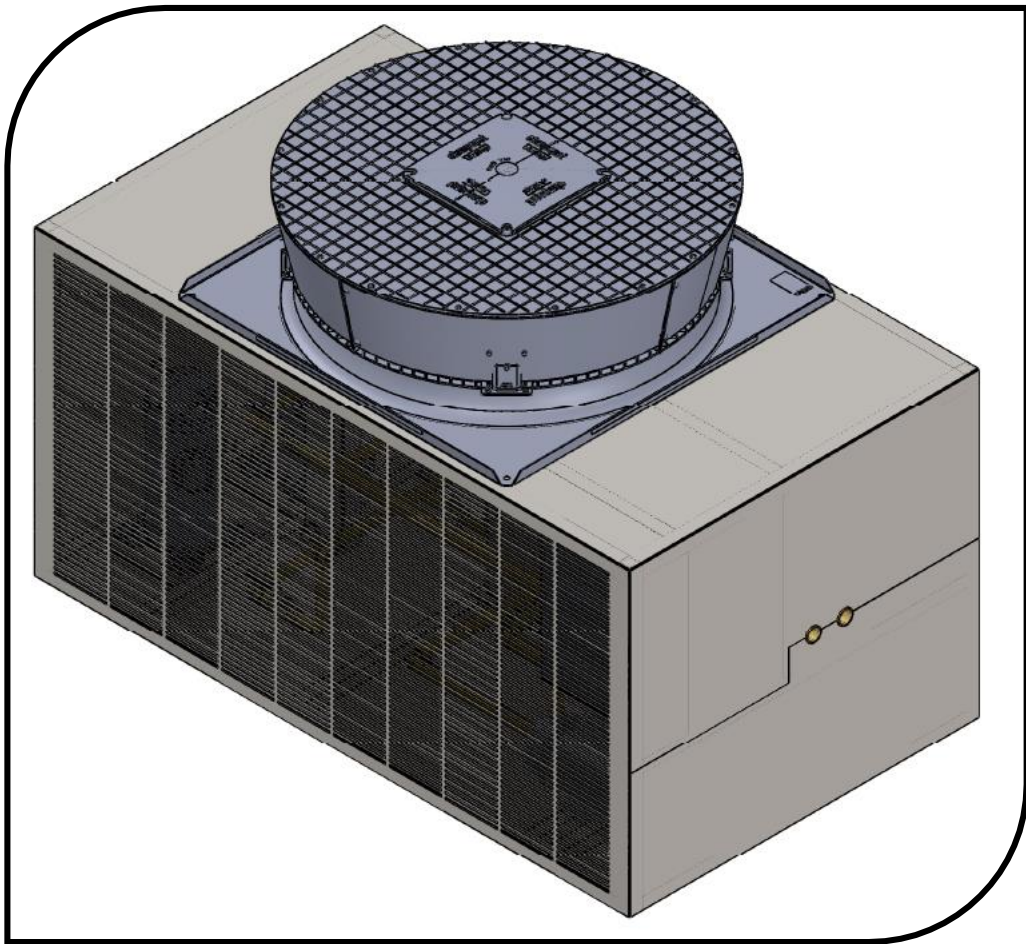




10, 12 and 14 TR Advanced Glycol Chillers



800.953.7700 • chillermen.com
374 S. Milpitas Blvd., Milpitas, CA 95035 • 3991 N. Freeway Blvd., Sacramento, CA 95834



FEATURES AND BENEFITS

PLUG AND PLAY OPERATION

- Single point power connection for system. System available in 230 VAC or 460 VAC (60 Hz)
- Steel skid construction for easy transportation to final site of operation
- System delivered tested, charged, and programmed with Fluid Industrial Manufacturing proprietary controls paradigm

PROPRIETARY CONTROLS PARADIGM

- Controls software designed by Fluid Industrial Manufacturing in house engineering to ensure optimal temperature accuracy and precision over time
- System controls designed for system safety and reliability: high / low pressure switches, fluid flow switches, current transmitters, equal run time sequencers (where applicable), PID temperature control, and more all included on base models

SERVICEABILITY AND RELIABILITY

- 24 month warranty from ship date – with extended warranties available
- System designed for serviceability – all electrical panels, compressors, and pump motors are readily accessible by trained technicians and situated for easy replacement should it be required
- Safety systems ensure proper operation at all times to maximize system life span and minimize down time

CONFORMANCE AND REGULATIONS

- UL Listed and approved system
- Conforms with all California Title 24 and CalGreen Requirements and Voluntary Limitations.

FEATURES AND BENEFITS

OPTIMIZED SYSTEM EFFICIENCY

- Designed to meet – and drastically exceed – all efficiency and configuration requirements for the state of California

STANDARD EER ACCORDING TO AHRI 550/590			
	10 TON SYSTEM	12 TON SYSTEM	14 TON SYSTEM
EER	10.756 Btu/W	10.901 Btu/W	10.745 Btu/W

STANDARD AND OPTIONAL FEATURES

STANDARD FEATURES			
Programmable PLC Controller	Outgoing Temp Control	50 Gallon Buffer Tank	Current Transmitters
Single Compressor Circuit	Single Circulation Pump	Factory Tuned and Tested	Diagnostic Display
Micro Channel Condensers	Fully Enclosed by Metallic Skins	Tube Frame Construction	EER Above 10.5
Low Ambient Operability	Variable Speed Condensing Fan	High / Low Pressure Safeties	UL Listed

OPTIONAL FEATURES			
Electronic Hot Gas Bypass System	Variable Speed Compressor (VFD)	Dual Compressor Circuits for Redundancy	Two Pump System (Primary and Secondary Pump)
	Isolation Ball Valves	Low Temperature Control (Sub 0C Fluid)	

TECHNICAL SPECIFICATIONS

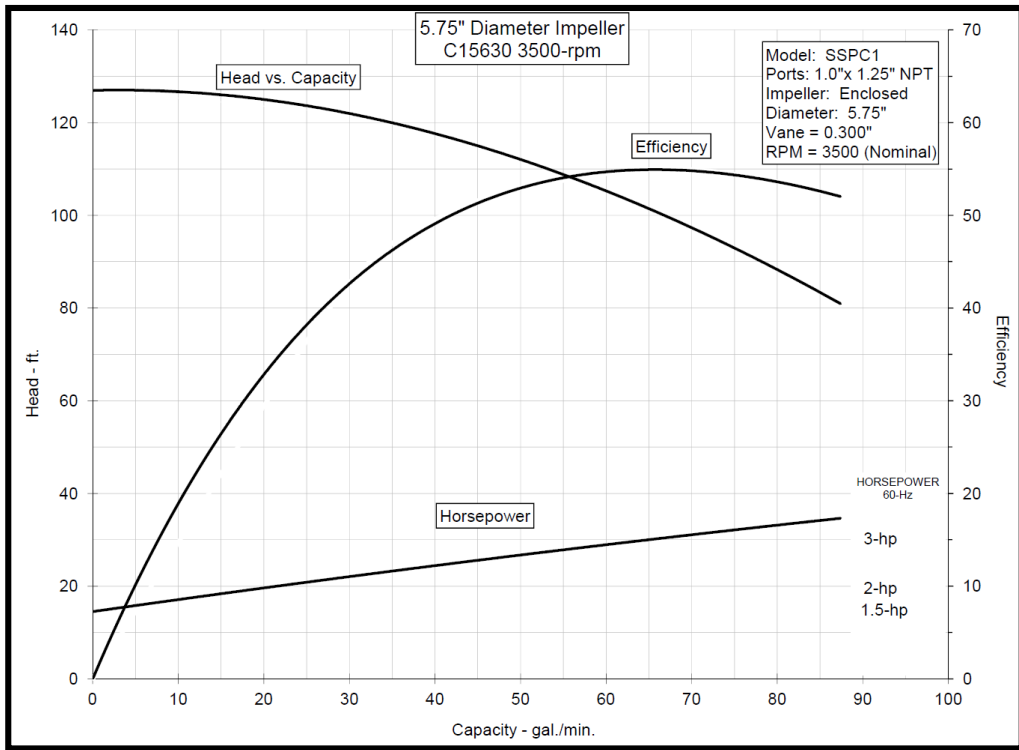


FIGURE 1: 3HP System Circulation Pump Curve

TABLE 1: Approximate Compressor Thermal Capacity – 10TR (BTU/hr)

		Coolant (Glycol) Temperature [°F]					
		[30]	[35]	[40]	[45]	[50]	[55]
Ambient Temperature [°F]	[75]	94,800	105,000	116,000	127,800	140,600	154,300
	[85]	89,200	98,800	109,300	120,500	132,600	145,600
	[95]	83,500	92,600	102,500	113,100	124,600	136,900
	[105]	77,600	86,200	95,500	105,600	116,400	128,000
	[115]	74,500	82,900	91,900	101,600	112,100	123,400

TECHNICAL SPECIFICATIONS

TABLE 2: Approximate Compressor Thermal Capacity – 12TR (BTU/hr)

		Coolant (Glycol) Temperature [°F]					
		[30]	[35]	[40]	[45]	[50]	[55]
Ambient Temperature [°F]	[75]	105,300	116,700	128,900	142,100	156,300	171,500
	[85]	99,100	109,800	121,400	133,900	147,400	161,800
	[95]	92,700	102,900	113,800	125,700	138,400	152,100
	[105]	86,100	95,700	106,000	117,100	129,200	142,100
	[115]	79,000	88,000	97,700	108,200	119,500	131,600

TABLE 3: Approximate Compressor Thermal Capacity – 14TR (BTU/hr)

		Coolant (Glycol) Temperature [°F]					
		[30]	[35]	[40]	[45]	[50]	[55]
Ambient Temperature [°F]	[75]	139,200	154,300	170,500	187,900	207,000	227,000
	[85]	130,800	145,200	160,700	177,400	195,300	214,000
	[95]	121,700	135,600	150,400	166,300	183,300	202,000
	[105]	112,100	125,300	139,500	154,600	170,700	188,000
	[115]	101,900	114,600	128,000	142,300	157,500	173,700

DIMENSIONS AND WEIGHTS

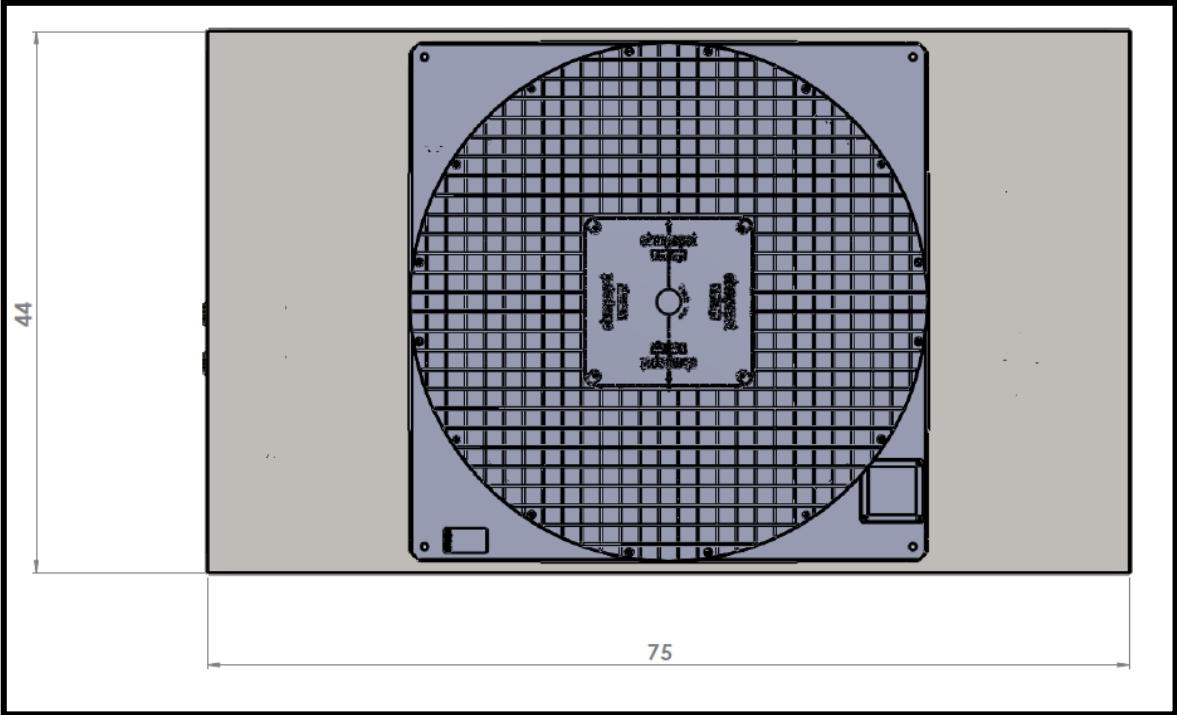


FIGURE 2: System top view dimensions (inches)

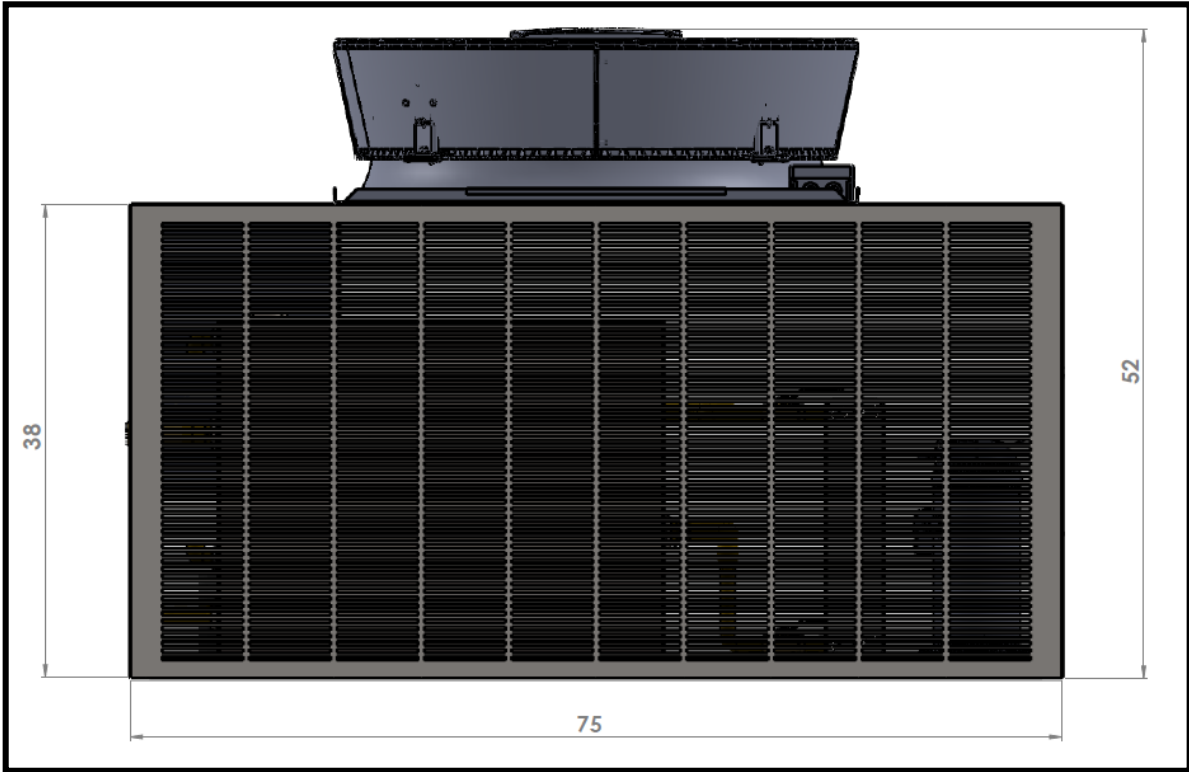


FIGURE 3: System front view dimensions (inches)

Approximate Operating Weight: TBD Pounds

Fluid Industrial Manufacturing
374 S Milpitas Blvd, Milpitas,
California 95035