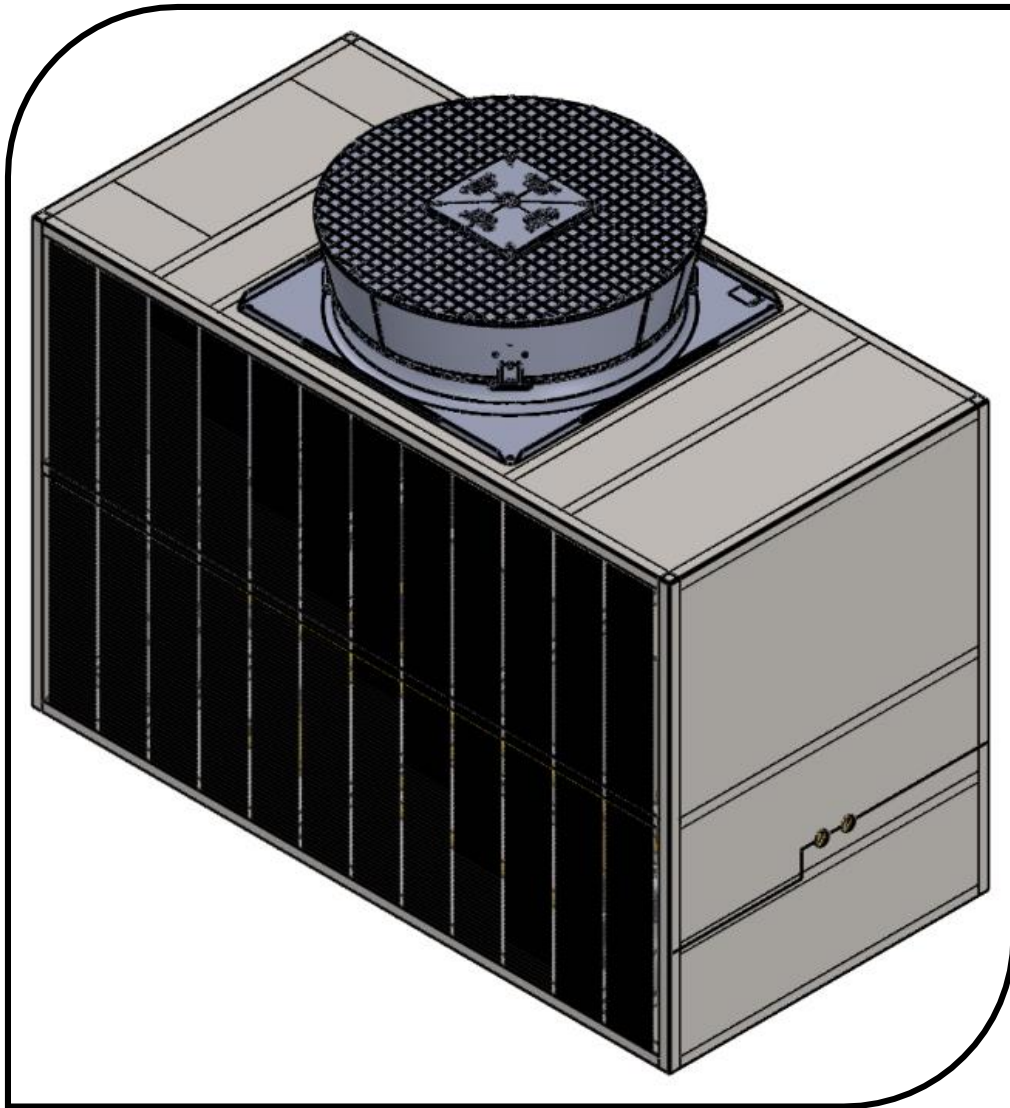




## 20 and 24 TR Advanced Glycol Chiller



800.953.7700 • [chillermen.com](http://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		
	20 TON SYSTEM	24 TON SYSTEM
EER	10.756 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

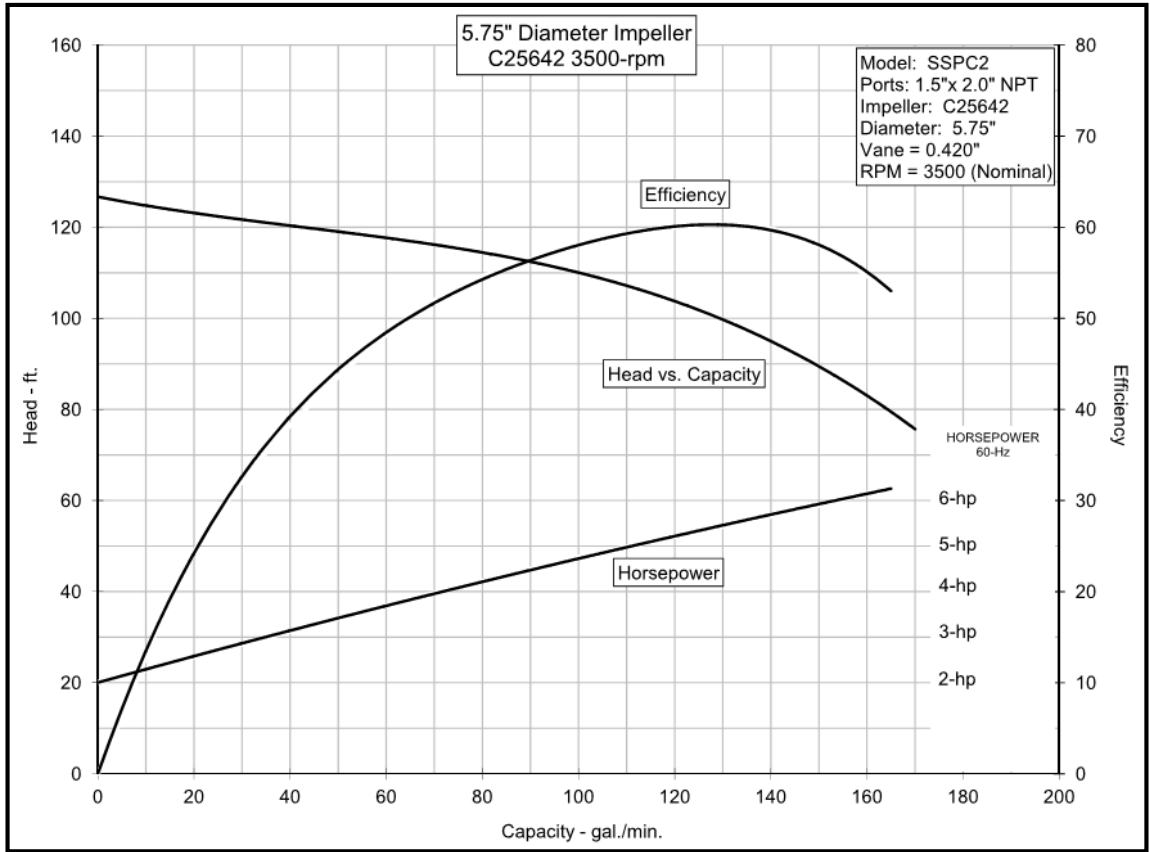


FIGURE 1: 5HP System Circulation Pump Curve

TABLE 1: Approximate Compressor Thermal Capacity – 20TR (BTU/hr)

		Coolant (Glycol) Temperature [°F]					
		[30]	[35]	[40]	[45]	[50]	[55]
Ambient Temperature [°F]	[75]	189,600	210,000	232,000	255,600	281,200	308,600
	[85]	178,400	197,600	218,600	241,000	265,200	291,200
	[95]	167,000	185,200	205,000	226,200	249,200	273,800
	[105]	155,200	172,400	191,000	211,200	232,800	256,000
	[115]	149,000	165,800	183,800	203,200	224,200	246,800

# TECHNICAL SPECIFICATIONS

TABLE 2: Approximate Compressor Thermal Capacity – 24TR (BTU/hr)

		Coolant (Glycol) Temperature [°F]					
		[30]	[35]	[40]	[45]	[50]	[55]
Ambient Temperature [°F]	[75]	237,600	258,000	280,000	303,600	329,200	356,600
	[85]	226,400	245,600	266,600	289,000	313,200	339,200
	[95]	215,000	233,200	253,000	274,200	297,200	321,800
	[105]	203,200	220,400	239,000	259,200	280,800	304,000
	[115]	197,000	213,800	231,800	251,200	272,200	294,800

# DIMENSIONS AND WEIGHTS

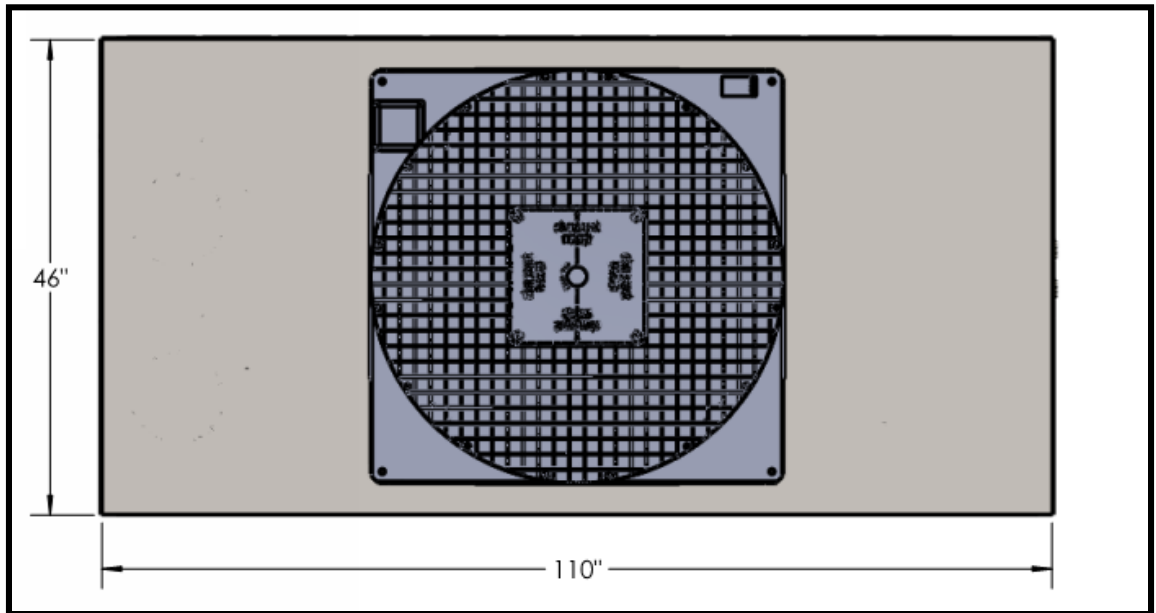


FIGURE 2: System top view dimensions (inches)

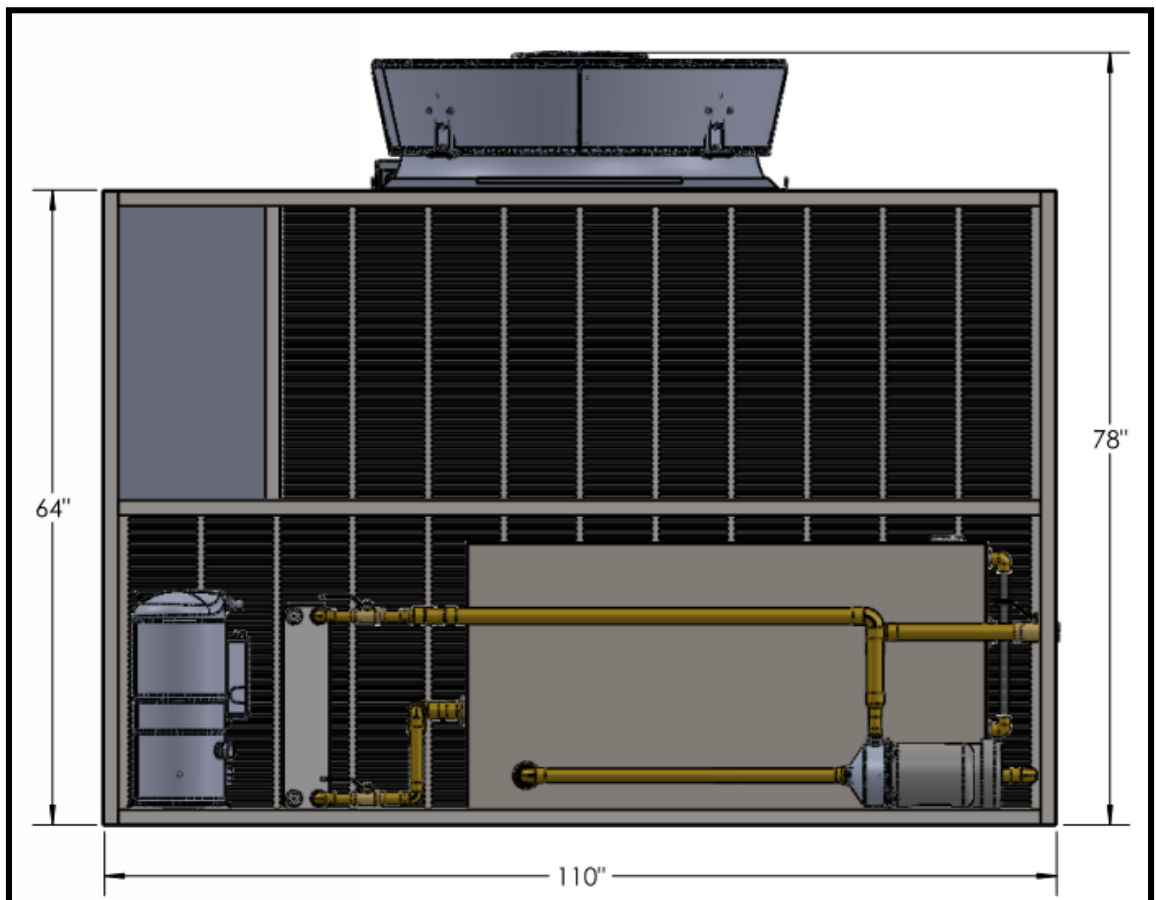


FIGURE 3: System front view dimensions (inches)

**Approximate Operating Weight: TBD Pounds**

Fluid Industrial Manufacturing  
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