



Job Name:	Location:
Order No.:	Contractor:
Project Manager:	Engineer:
Submitted To:	Submitted By:
Date: Special Instructions:	Asset ID:

MODEL QUANTITY		STANDARD FEATURES						
СШЗ				Indirect and Direct Evaporative Cooling.				
				✓ Patented high technology Microcore™ Indirect Cores.				
COOLING APPLICAT	TION			\checkmark Fresh, outside air for better indoor air quality (IAQ).				
Standalone	Pre-Cooling	Supplementary		No refrigerants or ozone depleting chemicals.				
				Quiet and vibration free operation.				
				\checkmark Filtered air with reduced dust, pollens and allergens.				
DESIGN CONDITION				High EER (Energy Efficiency Ratio).				
Dry Bulb		°F		Down discharge for conditioned air.				
Wet Bulb		°F		🗹 Up discharge for exhaust air.				
Elevation Above Sea I	Level	ft		Low maintenance, simple winterization				
Fan Duty Point:				Integrated water management system.				
Supply Air Volume		cfm		\checkmark Removable panels for easy maintenance access.				
External Static Pressu	ure	in.wg		Z Easy to connect power/control wiring.				
Performance:		_		65ft control cable.				
Supply Air Temperatu	ire	°F		External air temperature sensor.				
Pre-Cooling Capacity		BTU/hr		2 2x fans with high efficiency inverter motors.				
				Compact footprint.				
				High grade, UV stabilized polymer cabinet.				
OPTIONAL ACCESS	ORIES	QUANTITY		1-year limited warranty.				
MagIQtouch Wire	d Wall Controller.			ETL Classified to UL 507				
MagIQtouch Wire	less RF Wall Controller.							
MagIQtouch BMS	Industrial Controller M	1.						
MagIQtouch BMS	Industrial Controller M	S1.						
MagIQtouch Inter	mal Air Sensor.							
MagIQtouch Link	Module.							





GENERAL

Climate Wizard coolers are characterized by the supply of 100% fresh, cool, outside air, with greatly reduced energy consumption relative to an equivalent refrigerated system performing the same duty.

The cooler comprises of a supply air fan, an indirect heat exchanger pack, integrated water reservoir, pump, and chlorinator system.

CABINET

The cabinet consists of a reservoir, four side panels and a lid constructed of injection molded UV stabilized reinforced polypropylene.

Components are effectively treated to ensure corrosion resistance and mechanical fasteners are zinc coated, stainless steel or aluminum.

Connection interface surfaces are provided for the outlet supply air ductwork to be fitted using established industry practices.

The cooler is fitted with two semi-circular, polypropylene blades, hinged and counterbalanced, to open automatically when the supply fan is activated, and to close when the supply fan is switched off. The weather seal prevents the escape of room air through the ductwork.

FAN & MOTOR

The supply fan is a statically and dynamically balanced multi-blade, aero foil shaped axial assembly. The exhaust fan is a multi-blade, centrifugal type with backward curved blades.

Both fans are constructed from glass reinforced polypropylene and are mounted to their electric motor shaft by means of an axial co-molded hub.

The electric motors are high efficiency, inverter driven and responsive to pulse width modulation to implement speed control that delivers optimum efficiency at lower speed operation.

HEAT EXCHANGE CORE

The cooler uses a series of Seeley International's patented Micro-Core[™] heat exchangers. The Micro-Core[™] is characterized by its compact and efficient design which incorporates both an indirect cooling stage and an additional Chillcel® fabricated honeycomb, direct cooling pad.

ELECTRICAL CABINET AND CONTROLS

The electrical control box is pre-wired within the cooler.

The cooler is compatible with the MagIQtouch range of controls and is supplied with 65ft control cable.

WATER MANAGEMENT SYSTEM

The water supply connection is via a flexible connector which is terminated with a 1/2" NPT compression nipple.

Water is held in an internal reservoir which forms an integral part of the polymer cabinet to provide integrity to the structure and to ensure durability and corrosion resistance.

Heat exchange core saturation is achieved through internally mounted pumps delivering water to a specially designed non-clog water distribution system guaranteeing continuous uniform flow.

The pumps are manufactured from engineering plastics, with stainless steel shafts and fully encapsulated synchronous motors with thermal overload protection. They are provided with an easily cleanable strainer within the reservoir section.

An electronic water management system controls the maximum salinity level and chlorination of the reservoir water through continuous monitoring and replenishment.

The reservoir is drained by an electric drain valve which responds to the water management control system. The design of the reservoir ensures that no water remains after draining.

AIR FILTERS

Intake air is filtered through aluminum framed, washable, pleated filters, protected by the intake louver forming the sides of the cabinet to minimize intrusion of rain.

INSTALLATION

It is essential that the roof truss design is adequate to support the weight of the cooler.

Reinforcement may be required for existing roof structures. For a structural reinforcement guide for timber nail-plated truss roofs, see "CW3 Design Guide, Reinforcement of Timber Nail-plated Truss Roofs". Contact your Seeley International agent for a copy.

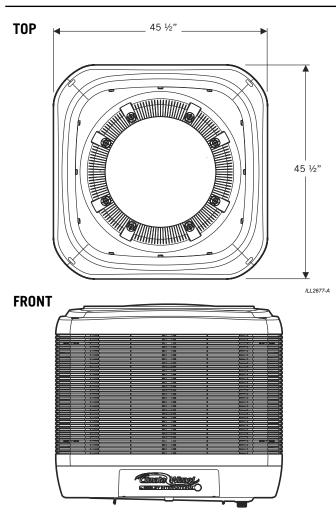
The cooler is designed to be installed on dropper with a minimum metal thickness of 20 gauge to support the operating weight of the cooler. The top edge of the dropper must incorporate a raw, but deburred, safe edge to avoid fouling of the weather seal.

For information on the air duct design requirements, see Document: "Pre-installation Considerations for CW3 Duct Design". Contact your Seeley International agent for a copy.

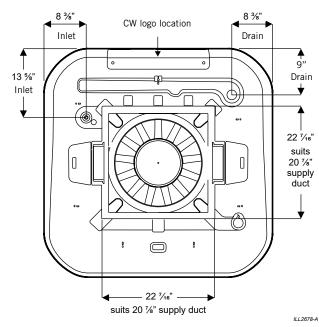
The cooler is supplied on a pallet that is designed to allow the cooler to be readily craned into position. Features in the pallet provide for the safe sling lifting of the cooler. Given the weight of the product, the use of a crane to lift the cooler onto its mounting dropper is preferred. Alternatively, the cooler may be stripped of its major subassemblies to allow them to be handled onto the roof in more manageable pieces.

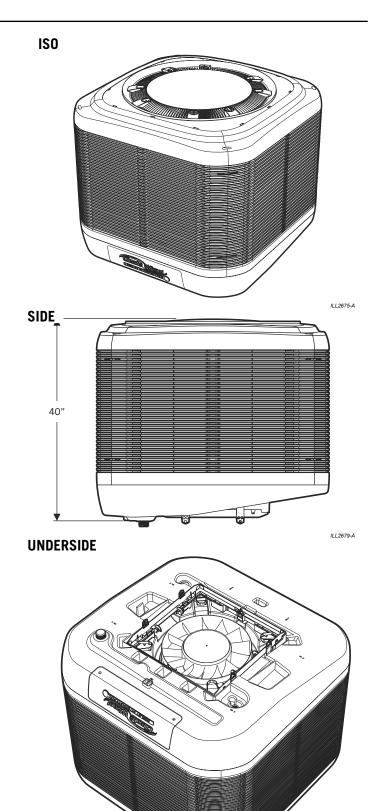






SERVICES





ILL2676-A

NOTE: Installers must allow adequate access to and around the cooler for Maintenance. Provision must be made for access to power, control, water supplies and drains. Refer to the Installation Manual for full details.

ILL2680-A





OPTIMUM PERFORMANCE	Airflow Temperature* Cooling Capacity* EER* Maximum Inlet Air Ter Electrical	Suppl Stand Pre-C Stand Pre-C	ist Air y Air alone ooling alone ooling ge		2	750 CFM @ 0. 1270 CF 66.7 °f 43,300 BT 98,800 BT	F F FU/hr		
OPTIMUM PERFORMANCE	Temperature* Cooling Capacity* EER* Maximum Inlet Air Ter	Exhau Suppl Stand Pre-C Stand Pre-C nperature Voltag Curre	ist Air y Air alone ooling alone ooling ge			1270 CF 66.7 °F 43,300 BT 98,800 BT	F F FU/hr		
OPTIMUM PERFORMANCE	Cooling Capacity* EER* Maximum Inlet Air Ter	Stand Pre-C Stand Pre-C nperature Voltag Curre	alone ooling alone ooling ge			43,300 BT 98,800 BT	ΓU/hr		
PERFORMANCE	EER* Maximum Inlet Air Ter	Pre-C Stand Pre-C nperature Voltag Curre	ooling alone ooling ge			98,800 BT			
ENVIRONMENT	EER* Maximum Inlet Air Ter	Stand Pre-C nperature Voltag Curre	alone ooling ge						
ENVIRONMENT	Maximum Inlet Air Ter	Pre-C nperature Voltag Curre	ooling ge				Ū/hr		
ENVIRONMENT	Maximum Inlet Air Ter	nperature Voltag Curre	ge			25			
		nperature Voltag Curre	ge			57			
		Voltag Curre			122 °F				
-	Electrical	Curre		220-240 V / 1~ / 60Hz					
-		Input	n i	7A FLA / 15 MOPD					
-			Power		1.75 kW				
		Suppl			5.3 GPM @ 15 PSI - 115 PSI				
			emperature		105 °F				
0		Inlet	emperatore		1/2" Male NPT				
SERVICES	Water		Imption*		16 GPH				
		Drain	Imption						
		-	Flow Rate		3/4" Push-On 4 GPM				
					Bottom Discharge				
	Duct Connections	Suppl	y Air		20-7/8" x 20-7/8"				
		Exhau	ıst Air		arge				
		Fan			15-3/4" Axial				
	Supply Air	Motor			3.5 kW				
	Fan/Motor	Contr	ol		Variable Speed, ECM, PWM Control				
		Max S	Speed			2400 rp			
AIR		Fan		15" Centrifugal Backward Curve					
SYSTEMS		Motor			950W				
		Contr			Variat	le Speed, ECM			
		Max S	-	1100 rpm					
-			,peeu	MERV 10 Disposable					
	Air Filters	Inlet			" - Qty. 8				
HEAT	Indirect Evaporative			8 Micro-Core™					
EXCHANGERS	Direct Evaporative				8 Chillcel Pads				
	Tank (Reservoir) Capad	city			7.9 Gal				
	Inlet Valve			12 VDC Solenoid Valve					
					3.4 GPM @ 60" Head				
	Indirect Heat Exchang	er Pump		220-240V 60Hz Input Power 32W 3.4 GPM @ 60" Head					
WATER									
SYSTEMS Direct Heat Exchangers Pump		s Pump			220-240V 60Hz				
_	Salinity Management				Input Power 32W				
F					Conductivity Probe				
Chlorinator					12 VDC				
Drain Valve						12 VDC Ve			
					46-1/4" Long				
	Shipping	hipping				46-1/4" Wide			
DIMENSIONS				41-1/4" High					
					45-1/2" Long				
	Operating inc. Accesso	ories		45-1/2" Wide					
	Chinaina				40" High				
WEIGHT	Shipping	····· ·			460 lb				
	Operating inc. Water/Accessories 530 lb								
STANDARDS COMPLIANCE			E	TL Classified t	o UL 507				
Supply Air Temperatu	res, Cooling Capacities, C		sumption tested t	o ASHRAE 143	3 with design c	ondition of:			
	wet-bulb and 81 °F room		-						
	Radiated Sound Power level (db re 1 pW) Octave Band Centre Frequency Total Sound Power								
quency (Hz) 3	125 250 62 69	500 77	1k 76	2k 71	4k 64	8k 54	(db re 1pW) 81		

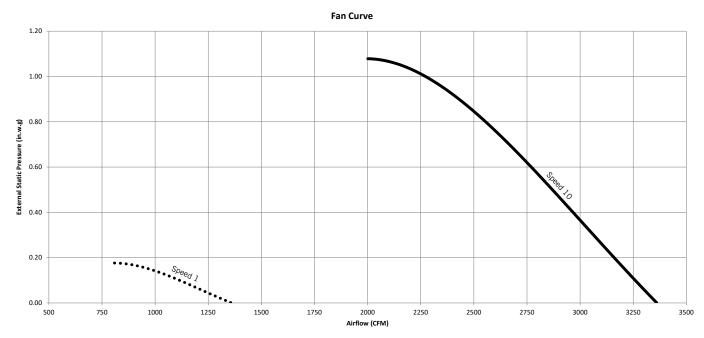




Performance Summary*								
Static Pressure (in w.g.)	0	0.20	0.40	0.60	0.80	1.00		
Airflow (CFM)	3360	3160	2980	2750	2560	2260		
Temperature (°F)	68	68	67	67	66	66		
Standalone Cooling Capacity (BTU/hr)	47,000	47,300	46,300	43,300	41,300	38,200		
Input Power (W)	1620	1660	1695	1745	1745	1750		
Standalone EER	29	28	27	25	24	22		
* Supply Air Temperatures, Cooling Capacities, COP and Water Consumption tested to ASHRAE 143 with design condition of:								

100 °F dry-bulb, 70 °F wet-bulb and 81 °F room exit temperature.

FAN CURVE



WIRING SCHEMATIC DIAGRAM

