

# Evaporative Cooler Service & Spare Parts

## Evaporative Cooler Inspection

To ensure you're getting optimal cooling performance from your Donaldson Evaporative Cooler, let the Donaldson experts perform a full inspection. You'll receive a detailed report.

We check for everything — that drift eliminator was installed per instructions, that there is sufficient caulking, that there are no gaps between media sections, that the sump components, pump, and orifices are working properly...and more! We designed it, so we know how the components should be installed and function.

Many turbine OEM's recommend annual inspection, and Donaldson is authorized to do such work.

Combine this with an inspection of your entire inlet filtration system for best economy and value.



ABOVE: Evap inspector checks for gaps in the media and signs of deterioration.

## Annual Re-Commissioning of Evaporative Cooler

Major turbine makers recommend annual commissioning of evaporative coolers and have authorized Donaldson to do it. Typically, this involves full inspection to ensure that everything is in safe and proper working order, as well as any necessary repairs work before start-up every spring.

Scope of this work covers

- Sump/pump/meter tune-up
- Media evaluation & replacement
- Seals, gaskets, caulking
- Dry run and wet run testing
- Related work as necessary or requested



RIGHT: Evaporative cooler section is typically located behind filter section.

## Evaporative Cooler Service Parts

Description	Part Number	Material
Controller, conductivity, analog 110 VAC, 3/4" NPTF	61096-01	stainless steel electrode
Controller, conductivity, analog 220 VAC, 3/4" NPTF	61096-02	stainless steel electrode
Controller, conductivity, digital 110/220 VAC, 50-60 Hz, 4-20 ma output	AD70805	stainless steel electrode
Retrofit Kit for adding conductivity controller**	89205-01	incl. valve, piping, flow meter, couplings, clamps, etc
Gauge, Pressure, 0-60 PSI	62105-01	steel case
Meter, Flow 2.6 - 26 GPM	44183-29	brass
Meter, Flow 5.3 - 53 GPM	44183-17	brass
Meter, Flow 7.9 - 79 GPM	44183-35	brass
Pump, Centrifugal, 50 Hz, Heater	86685-01	cast iron*
Pump, Centrifugal, 50 Hz	86685-02	cast iron*
Pump, Centrifugal, 60 Hz, Heater	86684-01	cast iron*
Pump, Centrifugal, 60 Hz	86684-02	cast iron*
Switch, Multi-Station	80835-01	brass
Valve, Ball, 1/8" NPT	81408-02	brass
Valve, Ball, 3/4" NPTF	37969-01	brass
Valve, Gate, 2", Flanged	44351-03	bronze
Valve, Globe, 1 1/2" NPTF	66595-05	bronze
Valve, Solenoid, 1 1/2" NPTF	44178-02	brass

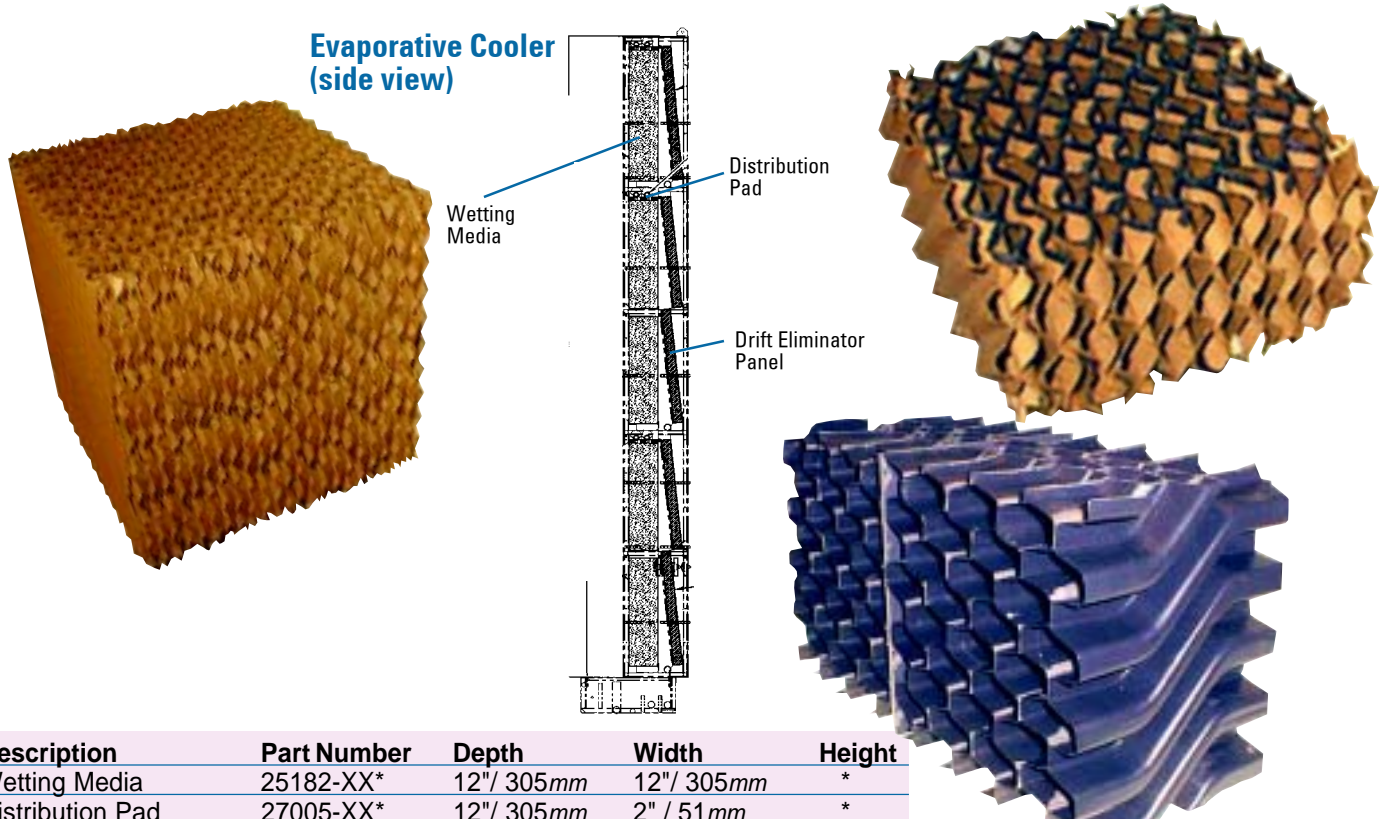
### NOTES:

\* **Pump:** cast iron casing, stainless steel shaft, bronze impeller.  
**Motor:** cast iron casing.

\*\* When retrofitting an evap cooler with a conductivity controller, order this kit AND one of the controllers listed. See explanation on page 47.

If you want to upgrade to other materials, such as bronze, brass or stainless steel, call us for specific part numbers and prices.

# Evaporative Cooler Media



Description	Part Number	Depth	Width	Height
Wetting Media	25182-XX*	12" / 305mm	12" / 305mm	*
Distribution Pad	27005-XX*	12" / 305mm	2" / 51 mm	*
Drift Eliminator Panel	53717-XX*	5¼" / 134mm	12 <sup>1</sup> / <sub>8</sub> " / 310mm or 25 <sup>1</sup> / <sub>8</sub> " / 640mm	*
	71671-XX*	5¼" / 134mm	*	*

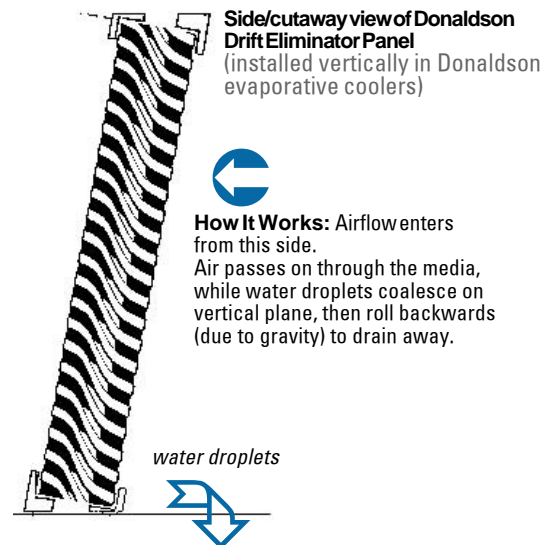
\* Cut to your desired length. The last 2 digits of the part number will indicate height.

## Monitor Mineral Content in the Water in Evap Cooler with Conductivity Controller

Add a conductivity controller to continuously monitor water quality (mineral content) of the water in your Donaldson Evaporative Cooling system. When the conductance exceeds a set value, a solenoid valve opens and blow-down initiates. The valve stays open until the conductance is below setpoint. This will protect the longevity of the evap media, as well as the system components, from the ravages of minerals.

Order one conductivity controller (either 110 or 220 VAC) and one installation kit. See part number list on page 46.

RIGHT: the drift eliminator panels viewed from the back side (inside the transition)



Side/cutaway view of Donaldson Drift Eliminator Panel (installed vertically in Donaldson evaporative coolers)



**How It Works:** Airflow enters from this side. Air passes through the media, while water droplets coalesce on vertical plane, then roll backwards (due to gravity) to drain away.