DMC-14/-20-G2 (Second Generation) Optional Accessories & Replacement Parts

Rack-Mount Version

Free-Standing Version
Option includes a nickel brazed plate heat exchanger, rear-panel-mounted DI assembly, upgraded stainless steel water fittings, and cartridge style water filter. Includes service wrench.

Same as DI-5-1/2-SS with optional bracket. Includes (qty 2) 1/2” Tube Push-to-Connect fittings and service wrench.

Canister style filter cartridge to filter process water and protect water pump. This option includes a back-panel-mounted particle filter assembly comprised of a canister style filter w/ fittings for installation onto chiller back panel, and a spare replacement filter element (P5-478). Includes service wrench.

Same as FILT-5-1/2 with optional bracket. Includes (qty 2) 1/2” Tube Push-to-Connect fittings and service wrench.
Commonly called HD IPG. One gallon bottle. DOWFROST HD fluid features a higher maximum operating temperature, higher reserve alkalinity and greater thermal stability for longer fluid life. Extra-strength corrosion inhibitors in DOWFROST HD fluid are formulated for high temperature use, resulting in reduced maintenance and longer inhibitor life in most applications.

Commonly called HD IPG. One quart bottle. DOWFROST HD fluid features a higher maximum operating temperature, higher reserve alkalinity and greater thermal stability for longer fluid life. Extra-strength corrosion inhibitors in DOWFROST HD fluid are formulated for high temperature use, resulting in reduced maintenance and longer inhibitor life in most applications.

Commonly called HD IPG. One gallon bottle. Pre-mixed coolant with 30% IPG & 70% deionized water. DOWFROST HD fluid features a higher maximum operating temperature, higher reserve alkalinity and greater thermal stability for longer fluid life. Extra-strength corrosion inhibitors in DOWFROST HD fluid are formulated for high temperature use, resulting in reduced maintenance and longer inhibitor life in most applications.
Option provides communications via the digital temperature controller. 
**Modbus RTU** format allows for communications via external computer or network. 
A Modbus Gateway or Modbus RTU communications card is required for interface.

**Modbus RTU Communications**
Model: 485 or 232-MODBUS RTU

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Option provides communications via the digital temperature controller. 
Modbus TCP / Ethernet format allows for communications via network computer. This format is supplied via rear panel CAT 6 female port.

**Modbus TCP Communication**
Model: TCP

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Option provides communication via the digital temperature controller. 
**USB 2.0** format allows communications via local computer. 
This format is supplied via rear-panel USB B female connector.

**USB 2.0 Communication**
Model: USB2.0

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Option provides communications via the digital temperature controller. 
**RS-232** format allows for communications via local computer. 
EIA-485 is output from the temperature controller & converted via external cable / module to a RS-232 format.

**RS-232 Communication**
Model: RS-232

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Option provides communications via the digital temperature controller. 
**Profibus DP** format allows for communications via external computer or network. 
A Profibus Gateway or Profibus communications card is required for interface.

**Profibus DP Communications**
Model: PROFIBUS DP

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Option provides communications via the digital temperature controller. 
**Device Net** format allows for communications via external computer or network. 
A Device Net Gateway or Device Net communications card is required for interface. 
Cable 3082A supplied and routed to optional communications panel. Customer must supply connector.

**Device Net Communication**
Model: DEVICE NET
**Optional Accessories**

**End User Board**
Model: EU-PCB-A or S

Front-panel viewed PCB reports status of interface signals via LED's and audible alarm. PCB reports status of coolant flow, coolant level, compressor alarm, and coolant temperature alarm via dual color LED's. Audible alarm sounds on any or all fault signals. Order option "A" for alarms only or option "S" for alarms and shut down.

**RTD Output**
Model: TS-RTD

Sensor is 100Ω, 3 wire platinum RTD & located in coolant tank. Connector output located on back panel w/ mating connector provided. Sensor provides redundant sensing of coolant temperature.

**Remote Energize**
Model: SSR-REMOTE

Option allows user to power chiller ON or OFF via internally installed SSR. Customer supplies remote 3-32 VDC input to energize chiller.

**SpecView Software (Mini Version)**
Model: SVMSB-0000-0000

SpecView gives customers the ability to remotely set the set point, see temperature alarms, monitor time vs. temperature, and monitor the state of the RTD. Also includes Color Dynamics and Strategy Controller Option which allows a color to change colors and flash. With added DIO controller option SpecView can monitor flow and level alarms. Watlow’s Controller Support Tools come with latest SpecView program. Customers can use software up to 10 minutes in demo mode. Purchase this option directly from Watlow. Single Port Option.

**SpecView Software (Mini + Active X)**
Model: SVMSB-0A00-0000

Same as SVMSB-0000-0000 and also includes graphical Active X controls that allow SpecView to connect to and work with third party software, such as FactorySoft’s Symbol Factory. Purchase this option directly from Watlow. Single port option.
Optional Accessories

**DIO (Digital In/Out)**
Model: DIO-LCR-1420

Optional includes two digital outputs from the temperature controller. Outputs provide status of process coolant flow and coolant level switches via data stream.

**End User Board - Alarm Only**
Model: EU-PCB-A-C

Option provides closed contact DIO (Digital Input/Output) signals to the 15 pin D connector via the End User Board conversion. (Option is available only if EU-PCB-A is purchased.)
Includes two 1/2" Push-to-Connect fittings for chiller back-panel & 12 feet of 1/2" OD LLDPE tubing (BLK).

Option provides casters (4X) and mounting hardware for portability, until unit is ready for rack mounting.

Option converts rack-mount cabinet to free standing chiller w/ casters.

Back-panel mounted nickel plated (DI compatible) valve body and SS valve allows process coolant, to be bypassed between the supply and return bulkhead fittings. Valve regulates coolant flow to load.

Same as BPV-3/8 with (qty 2) external 3/8" O.D. x 3/8" MPT push-to-connect tube fittings.
Optional Accessories

Bypass Valve (Quick-Disconnect)  
Model: BPV-3/8-QD

Same as BPV-3/8 with Quick-Disconnect external fittings. Includes male and female valved, quick-disconnect fittings. Also includes mating quick-disconnect fitting w/ 3/8” compression connections to customer tubing. See model 3/8-QD option.

Quick Disconnect Fitting Kit  
Model: 3/8-QD

Option provides male and female valved, quick-disconnect fittings. Also includes mating quick-disconnect fitting w/ 3/8” compression connections to customer tubing.

PAO Compatibility & Test  
Model: PAO-C/T

Option includes special sealing and preparation for Royco 602™ / PAO coolant. Operation also includes chiller testing with Royco 602™ / PAO coolant & digital pressure gauge assembly.

Filter / Flow Meter Assembly  
Model: PAO-FF

Option includes fuel filter / water separator assembly with a spare filter element, and a 0-1 GPM coolant flow meter. Assembly is mounted on a separate rack panel. Assembly is plumbed to the chiller if the unit is not free-standing.

Filter Assembly  
Model: PAO-FILT

Option includes fuel filter with a spare filter element. Assembly is mounted on a separate rack panel.

Optional Insulation Package  
Model: INSUL-PKG-1420

For applications where coolant set temperature is below dew point. Insulation applied to process coolant tank, pump head, and coolant lines. Pump motor is encapsulated.
## Optional Accessories

<table>
<thead>
<tr>
<th>Optional RD Pump Model: RD-05-24</th>
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<tbody>
<tr>
<td>Optional centrifugal water pump for low pressure applications. Includes 30 watt 24 VDC power supply and plumbing. Deadhead pressure at 16psi. Supplies 0.5 - 1.5 GPM (1.9 - 5.7 LPM) depending on system pressure.</td>
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</tbody>
</table>

| 1.0 GPM Large Orifice Flow Switch Model: FS-1.0 |
|______________________________________________|
| Optional large orifice coolant flow switch to reduce coolant pressure with high flow coolant values. |

| 2.0 GPM Large Orifice Flow Switch Model: FS-2.0 |
|______________________________________________|
| Optional large orifice coolant flow switch to reduce coolant pressure with high flow coolant values. |

| Optional High Flow PDM Pump Model: PDM-6-16-1420 |
|________________________________________________|
| Optional high flow PDM pump for high pressure applications. Includes upgrade to large orifice flow switch. Supplies 1.5 - 4.4 GPM (5.8 - 16.5 LPM) of coolant at up to 59psi / 4 bar of available pressure. Coolant flow rates available in 7 increments via dip switch selection. Used for aqueous coolant or PAO oil. Upgraded discharge lines also included. |

| Optional Rack-Mount Conversion Model: RMC-DMC |
|______________________________________________|
| Option for customers with free standing DMC-14/20’s that want to convert their unit to a rack-mount unit. Includes 1 top panel, 2 rack mount ears, and hardware. |

| Cable Assembly, Series Interface Model: CBL-SER-INT |
|________________________________________________|
| Optional 15pin D interface signal cable to provide interlock signals wired in series & remote energize input. |
The transducer operates from 0-145psi and has a 0.25% BFSL accuracy rating. The transducer has all stainless steel parts with no o-rings. The controller displays “in-range” pressure values in green and “out-of-range” pressure values in red.
Replacement Parts

- **Replacement Air Filter**
  Model: AF-7
  Filters ambient air to maintain efficiency of condenser coil.

- **Replacement DI Cartridge**
  Model: SB-0500
  Replacement mixed-bed ion cartridge for dionizer canister.

- **Replacement Filter Element**
  Model: P5-478
  Replacement 5 micron filter element for FILT-5 assembly.

- **Replacement Fan**
  Model: 60332002 / 60332006
  Optional replacement fan for DMC-14/20 units.

- **Replacement 0-30psi Gauge Brass**
  Model: 0-30-B
  Replacement 0-30psi pressure gauge. Gauge is 316 stainless steel and connection fittings are brass.

- **Replacement 0-160psi Gauge Brass**
  Model: 0-160-B
  Replacement 0-160psi pressure gauge. Gauge is 316 stainless steel and connection fittings are brass.
Replacement Parts

- **Replacement 0-30psi Gauge SS**
  - Model: 0-30-SS
  - Replacement 0-30psi pressure gauge. Gauge and connection fittings are 316 stainless steel.

- **Replacement 0-160psi Gauge SS**
  - Model: 0-160-SS
  - Replacement 0-160psi pressure gauge. Gauge and connection fittings are 316 stainless steel.

- **Replacement PDM Pump**
  - Model: PDM-3-10-1420
  - Replacement PDM pump with fittings.

- **Replacement High Flow Pump**
  - Model: PDM-6-16-1420
  - Replacement High Flow PDM pump with fittings.

- **Encapsulated PDM Pump**
  - Model: PDM-E-3-10-1420
  - Replacement encapsulated PDM pump for units with a insulation package. Comes with insulation around pump head.

- **Replacement PDM Pump**
  - Model: PDM-E-6-16-1420
  - Replacement encapsulated PDM pump for units with a insulation package. Comes with insulation around pump head.
## Replacement Parts

<table>
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<tr>
<th>Replacement RD Pump</th>
<th>Replacement Pump Controller 115V</th>
<th>Replacement Pump Controller 230V</th>
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</table>

- **Replacement RD Pump Model: RD-05-24**
  - Replacement centrifugal water pump. Includes 30 watt 24 VDC power supply and plumbing.

- **Replacement Pump Controller 115V Model: CONT-115V**
  - Pump controller replacement for 115V DMC’s. Power cable included.

- **Replacement Pump Controller 230V Model: CONT-230V**
  - Pump controller replacement for 230V DMC’s. Power cable included.

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