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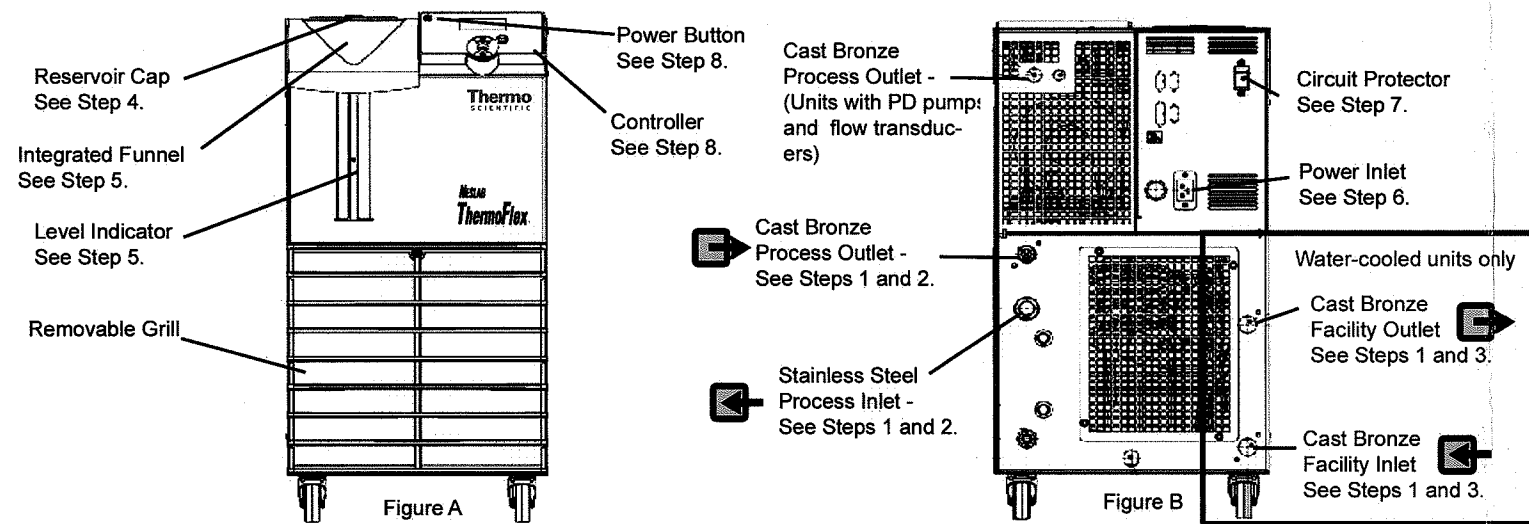
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What you need to get started:

- An adjustable wrench
- Facility water supply and return (water-cooled units)
- Appropriate hose or plumbing
- Appropriate size clamps or connection type
- Teflon® Tape or appropriate sealant

| | | | |
|---|--|--|---|
| <p>1 Pull out the plastic shipping plugs.</p> <p>See Figure B.</p> | <p>2 Connect the ThermoFlex PROCESS OUTLET (A) to the fluid inlet on your application. Connect the ThermoFlex PROCESS INLET (B) to the fluid outlet on your application. Ensure the connections are sealed and secure. For air-cooled units skip to Step 4.</p> <p>See Figure B.</p> | <p>3 Connect the ThermoFlex FACILITY OUTLET (A) to your facility water return or drain. Connect the ThermoFlex FACILITY INLET (B) to your facility water supply. Ensure the connections are sealed and secure.</p> <p><i>For water-cooled units only.</i></p> <p>See Figure B.</p> | <p>4 Remove the reservoir cap by unscrewing it counter-clockwise.</p> <p>See Figure A.</p> |
| <p>5 Slowly fill reservoir with clean process fluid (see Table 1), utilizing sight tube for easy fluid level monitoring. When the reservoir is full replace the reservoir cap, hand tight. Since the reservoir capacity may be small compared to your application and air may need to be purged from the lines, have extra cooling fluid on hand to keep the system topped off when external circulation is started.</p> <p>Note: Be careful not to fill the reservoir above MAX LEVEL fill line. This will result in a unit over flow error (O FLO) which will cause the unit to shut down.</p> <p>See Figure A.</p> | <p>6 Verify the appropriate voltage. Insert female end of power cord into chiller and then insert male end of power cord into power outlet.</p> <p>See Figure B.</p> | <p>7 Place the circuit protector located on the rear of the unit to the on (I) position. The controller display will indicate a series of scrolling bars (≡ ≡). The bars will scroll upward indicating the controller is doing a self-test which takes approximately 15 seconds.</p> <p>See Figure B.</p> | <p>8 Press . The controller will display SETuP. Please see reverse side for additional steps.</p> <p>See Figure A.</p> |




Safety Precautions:

- The unit is designed for indoor use only.
- Never place unit in a location where excessive heat, moisture, inadequate ventilation, or corrosive materials are present.
- Never use flammable or corrosive fluids with this unit.
- Never connect process fluid lines to your facility water supply or to any pressurized liquid source.
- If your unit is equipped with a positive displacement pump, ensure your application plumbing lines and fittings are rated to withstand a minimum of 110 psi.
- Before using any fluid or performing maintenance where contact with the fluid is likely refer to the manufacturer's MSDS for handling precautions.

Table 1.


| Appropriate Fluids: |
|---|
| Filtered/Single Distilled Water |
| Deionized water (1-3 MΩcm, compensated) |
| 0 – 95% Ethylene Glycol/Water |
| 0 – 95% Propylene Glycol/Water |




Quick Start - Used for Initial Start Up Only — perform steps 9 to 20 for all units.

NOTE: Once any Setup step is completed, meaning you pressed the  key a second time, you cannot repeat the step to make corrections. You can make corrections after the unit is started, refer to the manual Section 4.

 Press  to continue the setup procedure.




9 Units UnitS are the temperature, fluid flow (optional) and pressure scales.

 Scales: °C/°F Gallons/Liters PSI/Bar/KPAS

- Press 
 - The display will flash between UnitS and °C
 - If desired, use  to change the scale to °F
- Press  to sequence to the next display
- Do the same for Gallons and PSI




10 Hi t Hi t sets the fluid's High Temperature Alarm Limit.

Range: +4°C to +42°C
Factory Default: +42°C

- Press 
 - The display will flash between Hi t and 42
 - If desired, use  to adjust the value
- Press  to sequence to the next display




11 Lo t Lo t sets the fluid's Low Temperature Alarm Limit.

Range: +4°C to +40°C
Factory Default: +4°C

- Press 
 - The display will flash between Lo t and 4
 - If desired, use  to adjust the value
- Press 



12 Hi P1 Hi P1 sets the Pump's High Pressure Discharge Alarm Limit.

Range: 4 to 100 psi
Factory Default: 100 psi

- Press 
 - The display will flash between Hi P1 and 100
 - If desired, use  to adjust the value
- Press 




13 dELAY dELAY is the length of time the pump can exceed the Hi P1 Alarm Limit before shutting down.

Range: 0 to 30 seconds
Factory Default: 0 seconds

- The display will flash between dELAY and 0
- If desired, use  to adjust the value
- Press 



14 Lo P1 Lo P1 sets the Pump's Low Pressure Discharge Alarm Limit.

Range: 4 to 40 psi
Factory Default: 4 psi

- Press 
 - The display will flash between Lo P1 and 4
 - If desired, use  to adjust the value
- Press 




15 dELAY dELAY is the length of time the pump can exceed the Lo P1 Alarm Limit before shutting down.

Range: 0 to 30 seconds
Factory Default: 10 seconds

- The display will flash between dELAY and 10
- If desired, use  to adjust the value
- Press 




16 ALr ALr configures the unit's reaction to temperature, pressure, and flow (optional) alarm limits - either shut down (fLt) or continue to run (indC). See manual for more information.

Range: fLt* or indC**
Factory Default: fLt

- Press 
 - The display will flash between ALr and fLt
 - If desired, press  to display indC
- Press 
 - *fLt = fault (shut down)
 - **indC = indicate (continue to run)




17 Sound Turns the unit's audible alarm on or off.

Range: on or OFF
Factory Default: on

- Press 
 - The display will flash between Sound and on
 - If desired, press  to display OFF
- Press 




18 StArt StArt enables/disables auto restart.

Range: on or OFF
Factory Default: on

- Press 
 - The display will flash between StArt and on
 - If desired, press  to display OFF
- Press 

19 CARe CARe is used to set the preventative care cleaning frequency reminder for the unit's air and fluid filters.




Range: off, L1 - 1000 hours, L2 - 2000 hours, L3 - 3000 hours
Factory Default: L1

- Press 
 - The display will flash between CARe and L1
 - If desired, use  to change display to off, L2 or L3
- Press 

Option - Flow Transducer (Steps A and B)




A Hi FLO HiFLO sets the high flow alarm limit.

Range: 0.5 to 20.0 GPM
Factory Default: 5.0 GPM

- Press 
 - The display will flash between HiFLO and 5.0
 - If desired, use  to adjust the value
- Press 

B Lo FLO LoFLO sets the low flow alarm limit.




Range: 0.5 to 20.0 GPM
Factory Default: 0.5 GPM

- Press 
 - The display will flash between LoFLO and 0.5
 - If desired, use  to adjust the value
- Press 
 - If your unit does not have serial communications see Step 20.

Option - Serial Communications (Steps C to H)




C SEr SEr is used to enable/disable and to configure serial communications mode.

Range: off, rS232, rS485
Factory Default: off

- Press 
 - The display will flash between SEr and OFF
 - If desired, use  to change the mode
- Press 



D BAud BAud is used to select the speed rate for serial communication.

Range: 9600, 4800, 2400, 1200, 600, or 300 bits per second.
Factory Default: 9600

- Press 
 - The display will flash between BAud and 9600
 - If desired, use  to change the rate
- Press 




E dAtA dAtA is used to display the number of bits per communication.

Display: 8

- Press 
 - The display will flash between dAtA and 8
- Press 




F StOP StOP is used to indicate the end of a communication's packet.

Range: 2 or 1
Factory Default: 1

- Press 
 - The display will flash between StOP and 1
 - If desired, use  to change the setting
- Press 




G PAr PAr is used as a means to check for communication errors.

Range: even, odd, or none
Factory Default: none

- Press 
 - The display will flash between PAr and none
 - If desired, use  to change the setting
- Press 


H u id u id (unit id) is used in RS485 only. Identifies devices connected to the RS485 port.

Range: 1 to 32
Factory Default: 1



- Press 
 - The display will flash between u id and 1
 - If desired, use  to change the setting
- Press 
 - See Step 20.

(If applicable, see boxes on right to set up options)

20 Store


- Press  to save all settings

The unit will automatically start.

- Press  to abort all settings
- The display will go blank
- Press  to restart the procedure



The Setup procedure is now complete.

When the unit starts the controller will display the process fluid temperature.

If desired, you can change/verify the unit's setpoint by pressing .

SP SP is used to adjust the setpoint.

Range: +5°C to +40°C
Factory Default: +20°C

- The display will flash between SP and 20
- If desired, use  to change the setting
- Press  to return to the temperature display



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