
CHIE 4400HX PUMP REPLACEMENT WITH A CME PUMP

Parts Needed:

1. Plate Adapter, Mar Cor Part Number 3027556
2. CME 5-5 Pump, Mar Cor Part Number 3027557

Because Grundfos discontinued manufacturing the CHIE pump all 4400HX RO systems made or shipped after 30 March 2011 use the Grundfos CME 5-5 pump (Mar Cor Purification P/N 3027557). Please note there is a 1 inch height difference between the CHIE and CME pumps. The CME pump requires a plate adapter (Mar Cor Purification P/N 3027556) to properly fit the 4400HX piping; see Photo 2.

Follow this tech note to replace the CHIE pump along with replacement kit for the CHIE pump is 3027602.

Note: The CME pump uses the same piping and electrical connections as the CHIE pump. The CME pump uses the same reducer bushing on its inlet as the CHIE pump.

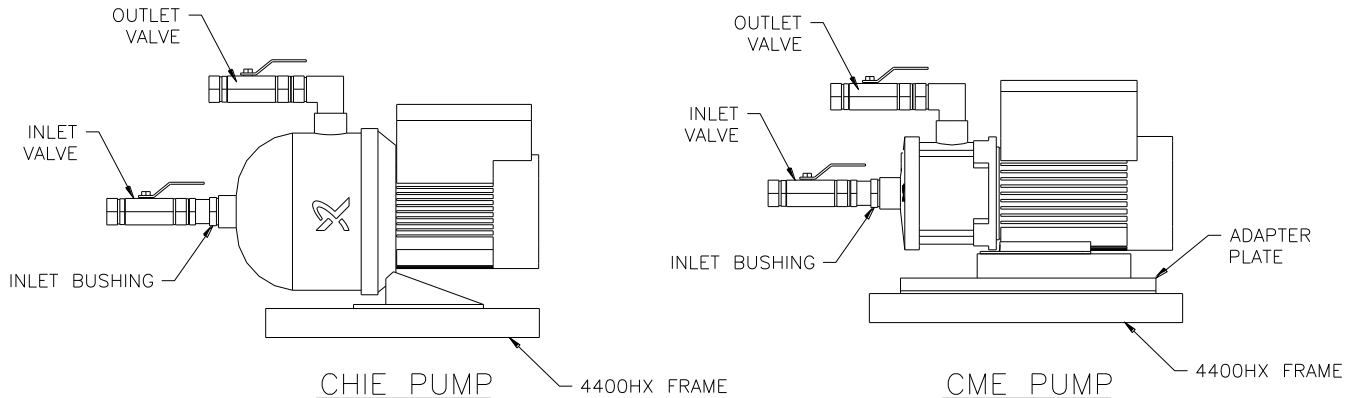
The final CME pump connections on the 4400HX RO should look like Photo 1 below.



Photo 1



Photo 2



Installation Instructions for Replacing the Distribution Pump CHIE with the CME Pump on 4400HX Systems

Caution: Turn “Off” Main Disconnect and all Electrical power from the 4400HX System before doing any work on the system.

Note: Use Torx tools when installing the CME Pump.

1. Turn “Off” the 4400HX system and close the Inlet and Outlet isolation valves on the CHIE Pump.
2. Before removing any pump wires from the CHIE pump, record where they are located on the motor. The CME’s electrical wiring is slightly different than the CHIE’s electrical wiring.
3. Remove the electrical connections from the CHIE Pump’s motor.
4. Disconnect the piping into the CHIE’s pump head by unscrewing the bushing nuts on the inlet and outlet piping.
5. Unscrew the bolts connecting the CHIE pump to the 4400HX frame.
6. Remove the CHIE pump from the frame.
7. Remove the mounting plate that comes with the CME pump.
8. Attach the Plate Adapter (3027556) onto the CME pump.
9. Place the Plate Adapter and the CME pump onto the 4400HX frame, and bolt it onto the frame.
10. Reconnect the electrical wiring to the CME pump. The power connection between the two pumps is the same; connect the signal wires per the cross reference table below.

CHIE TERMINALS	CME TERMINALS
GROUP 2: C	SIGNAL RELAY 1: C1
GROUP 2: NO	SIGNAL RELAY 1: NO
GROUP 1: 2	GROUP 1: 2
GROUP 1: 3	GROUP 1: 6
GROUP 1: 4	GROUP 1: 4
GROUP 1: 6	GROUP 1: 6

11. Reconnect the Outlet piping to the CME pump. Reconnect the inlet piping to the CME pump.
12. Turn "On" the electrical power to the 4400HX System.
13. Open the Inlet and Outlet isolation valves on the newly installed CME pump.
14. Turn "On" the 4400HX system and allow the water to circulate through the distribution pump.
15. Verify there are no leaks at the pump. If there are leaks tighten or reconnect fittings as needed.
16. Refer to the **OPERATION & MAINTENANCE MANUAL** as a heat disinfection or a chemical disinfection must be performed prior to placing the unit into normal service mode.