## HEAT PUMP CHILLER HEATER SCHEDULE (OWNER FURNISHED; SKID MOUNTED BY 3RD PARTY; CONTRACTOR INSTALLED)

| DESIGNATION | REFERENCE PRODUCT | LOCATION | SERVES | OPERATING WEIGHT (LBS) | REFRIGERANT TYPE | REFRIGERANT QUANTITY (LBS) | EVAPORATOR | | | | | | | | | | CONDENSER | | | | | | | | | | ELECTRICAL | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | CAPACITY (TONS) | DESIGN WATER FLOW RATE (GPM) | MIN. WATER FLOW RATE (GPM) | MAX. WATER FLOW RATE (GPM) | WATER EWT / LWT (DEG F) | DESIGN PRESSURE DROP (FT. WATER) | MIN PRESSURE DROP (FT. WATER) | MAX PRESSURE DROP (FT. WATER) | NO. OF PASSES | FOULING FACTOR | HEAT OF REJECTION (MBH) | DESIGN WATER FLOW RATE (GPM) | MIN. WATER FLOW RATE (GPM) | MAX WATER FLOW RATE (GPM) | WATER EWT / LWT (DEG F) | DESIGN PRESSURE DROP (FT. WATER) | MIN PRESSURE DROP (FT. WATER) | MAX PRESSURE DROP (FT. WATER) | NO. OF PASSES | FOULING FACTOR | TOTAL DEMAND (KW) | MOTOR LOCKED ROTOR AMPS (LRA) | MAXIMUM MOTOR CURRENT (RLA) | MIN. CIRCUIT AMPACITY (MCA) | MAXIMUM OVERCURRENT PROTECTION (MOCP) | VOLTS / PHASE | |
| HPCH-1-CPC | WATER FURNANCE TRUCLIMATE 700 | CPC CEP | CHW & HW SYSTEMS | 5,500 | R-513A | 170 | 100.5 | 242 | 140 | 630 | 52/42 | 5.20 | 1.74 | 35.20 | 1 | 0.00 | 1,685.6 | 340 | 140 | 630 | 130/140 | 14.2 | 2.40 | 48.60 | 1 | 0.00 | 17 | 20 | 240 | 300 | 500 | 460 / 3 | VARIABLE SPEED SCREW COMPRESSOR; 316 STAINLESS STEEL BRAZED PLATE HEAT EXCHANGERS; SOUND ATTENUATION KIT; TOUCHSCREEN INTERFACE; BACNET CONNECTIVITY; ELECTRONIC EXPANSION VALVE. |

## PUMP SCHEDULE (OWNER FURNISHED; SKID MOUNTED BY 3RD PARTY; CONTRACTOR INSTALLED)

| DESIGNATION | REFERENCE PRODUCT | LOCATION | SERVES | TYPE | WATER FLOW RATE (GPM) | TOTAL HEAD (FT. WATER) | ROTATION (RPM) | MINIMUM EFFICIENCY (%) | MOTOR SIZE | | ELECTRICAL | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | BHP | MHP | VOLTS | PHASE | |
| CHWP-HPCH-1-CPC | ARMSTRONG 4300 4x4x6 | CEP | CHILLED WATER | VERITICAL INLINE - SPLIT COUPLED | 300 | 25 | 1,800 | 77.0 | 2.46 | 5 | 480 | 3 | AISI 316 SS PUMP SHAFT; BRONZE OR STAINLESS STEEL FITTED CONSTRUCTION; WEAR RING; OSHA GUARD; NON-OVERLOADING / PREMIUM EFF. (NEMA 12.12) INVERTER READY MOTOR WITH CLASS F INSULATION; SHAFT GROUNDING RING; OUTSIDE BALANCED SEAL; SEAL FLUSH LINES WITH FILTER; SUCTION DIFFUSER. PROVIDE WITH PUMP SUPPORT STANCHION |
| HWP-HPCH-1-CPC | ARMSTRONG 4300 4x4x6 | CEP | HEATING WATER | VERITICAL INLINE - SPLIT COUPLED | 340 | 30 | 1,800 | 76.5 | 3.37 | 5 | 480 | 3 | AISI 316 SS PUMP SHAFT; BRONZE OR STAINLESS STEEL FITTED CONSTRUCTION; WEAR RING; OSHA GUARD; NON-OVERLOADING / PREMIUM EFF. (NEMA 12.12) INVERTER READY MOTOR WITH CLASS F INSULATION; SHAFT GROUNDING RING; OUTSIDE BALANCED SEAL; SEAL FLUSH LINES WITH FILTER; SUCTION DIFFUSER. PROVIDE WITH PUMP SUPPORT STANCHION |
| | | | | | | | | | | | | | |
| PMP-BCHW-1-CPC | ARMSTRONG 4300 8x8x11.5 | CEP | CHILLED WATER | VERITICAL INLINE - SPLIT COUPLED | 1,500 | 90 | 1,800 | 81.6 | 41.8 | 50 | 480 | 3 | AISI 316 SS PUMP SHAFT; BRONZE OR STAINLESS STEEL FITTED CONSTRUCTION; WEAR RING; OSHA GUARD; NON-OVERLOADING / PREMIUM EFF. (NEMA 12.12) INVERTER READY MOTOR WITH CLASS F INSULATION; SHAFT GROUNDING RING; OUTSIDE BALANCED SEAL; SEAL FLUSH LINES WITH FILTER; SUCTION DIFFUSER. PROVIDE WITH PUMP SUPPORT STANCHION |
| PMP-BCHW-2-CPC | ARMSTRONG 4300 8x8x11.5 | CEP | CHILLED WATER | VERITICAL INLINE - SPLIT COUPLED | 1,500 | 90 | 1,800 | 81.6 | 41.8 | 50 | 480 | 3 | AISI 316 SS PUMP SHAFT; BRONZE OR STAINLESS STEEL FITTED CONSTRUCTION; WEAR RING; OSHA GUARD; NON-OVERLOADING / PREMIUM EFF. (NEMA 12.12) INVERTER READY MOTOR WITH CLASS F INSULATION; SHAFT GROUNDING RING; OUTSIDE BALANCED SEAL; SEAL FLUSH LINES WITH FILTER; SUCTION DIFFUSER. PROVIDE WITH PUMP SUPPORT STANCHION |
| PMP-BHW-1-CPC | ARMSTRONG 4300 5x5x11.5 | CEP | HEATING WATER | VERITICAL INLINE - SPLIT COUPLED | 600 | 90 | 1,800 | 75.7 | 18.0 | 25 | 480 | 3 | AISI 316 SS PUMP SHAFT; BRONZE OR STAINLESS STEEL FITTED CONSTRUCTION; WEAR RING; OSHA GUARD; NON-OVERLOADING / PREMIUM EFF. (NEMA 12.12) INVERTER READY MOTOR WITH CLASS F INSULATION; SHAFT GROUNDING RING; OUTSIDE BALANCED SEAL; SEAL FLUSH LINES WITH FILTER; SUCTION DIFFUSER. PROVIDE WITH PUMP SUPPORT STANCHION |
| PMP-BHW-2-CPC | ARMSTRONG 4300 5x5x11.5 | CEP | HEATING WATER | VERITICAL INLINE - SPLIT COUPLED | 600 | 90 | 1,800 | 75.7 | 18.0 | 25 | 480 | 3 | AISI 316 SS PUMP SHAFT; BRONZE OR STAINLESS STEEL FITTED CONSTRUCTION; WEAR RING; OSHA GUARD; NON-OVERLOADING / PREMIUM EFF. (NEMA 12.12) INVERTER READY MOTOR WITH CLASS F INSULATION; SHAFT GROUNDING RING; OUTSIDE BALANCED SEAL; SEAL FLUSH LINES WITH FILTER; SUCTION DIFFUSER. PROVIDE WITH PUMP SUPPORT STANCHION |
| | | | | | | | | | | | | | |
| PMP-BCHW-1-HIH | ARMSTRONG 4300 4x4x10 | CEP | CHILLED WATER | VERITICAL INLINE - SPLIT COUPLED | 360 | 75 | 1,800 | 70.72 | 9.6 | 15 | 480 | 3 | AISI 316 SS PUMP SHAFT; BRONZE OR STAINLESS STEEL FITTED CONSTRUCTION; WEAR RING; OSHA GUARD; NON-OVERLOADING / PREMIUM EFF. (NEMA 12.12) INVERTER READY MOTOR WITH CLASS F INSULATION; SHAFT GROUNDING RING; OUTSIDE BALANCED SEAL; SEAL FLUSH LINES WITH FILTER; SUCTION DIFFUSER. PROVIDE WITH PUMP SUPPORT STANCHION |
| PMP-BCHW-2-HIH | ARMSTRONG 4300 4x4x10 | CEP | CHILLED WATER | VERITICAL INLINE - SPLIT COUPLED | 360 | 75 | 1,800 | 70.72 | 9.6 | 15 | 480 | 3 | AISI 316 SS PUMP SHAFT; BRONZE OR STAINLESS STEEL FITTED CONSTRUCTION; WEAR RING; OSHA GUARD; NON-OVERLOADING / PREMIUM EFF. (NEMA 12.12) INVERTER READY MOTOR WITH CLASS F INSULATION; SHAFT GROUNDING RING; OUTSIDE BALANCED SEAL; SEAL FLUSH LINES WITH FILTER; SUCTION DIFFUSER. PROVIDE WITH PUMP SUPPORT STANCHION |
| PMP-BHW-1-HIH | ARMSTRONG 4300 4x4x10 | CEP | HEATING WATER | VERITICAL INLINE - SPLIT COUPLED | 300 | 75 | 1,800 | 71.79 | 7.9 | 15 | 480 | 3 | AISI 316 SS PUMP SHAFT; BRONZE OR STAINLESS STEEL FITTED CONSTRUCTION; WEAR RING; OSHA GUARD; NON-OVERLOADING / PREMIUM EFF. (NEMA 12.12) INVERTER READY MOTOR WITH CLASS F INSULATION; SHAFT GROUNDING RING; OUTSIDE BALANCED SEAL; SEAL FLUSH LINES WITH FILTER; SUCTION DIFFUSER. PROVIDE WITH PUMP SUPPORT STANCHION |
| PMP-BHW-2-HIH | ARMSTRONG 4300 4x4x10 | CEP | HEATING WATER | VERITICAL INLINE - SPLIT COUPLED | 300 | 75 | 1,800 | 71.79 | 7.9 | 15 | 480 | 3 | AISI 316 SS PUMP SHAFT; BRONZE OR STAINLESS STEEL FITTED CONSTRUCTION; WEAR RING; OSHA GUARD; NON-OVERLOADING / PREMIUM EFF. (NEMA 12.12) INVERTER READY MOTOR WITH CLASS F INSULATION; SHAFT GROUNDING RING; OUTSIDE BALANCED SEAL; SEAL FLUSH LINES WITH FILTER; SUCTION DIFFUSER. PROVIDE WITH PUMP SUPPORT STANCHION |

## VARIABLE FREQUENCY DRIVE SCHEDULE (OWNER FURNISHED; SKID MOUNTED BY 3RD PARTY; CONTRACTOR INSTALLED)

| DESIGNATION | REFERENCE PRODUCT | LOCATION | SERVES | TYPE | HARMONIC MITIGATION | ENCLOSURE | VFD BYPASS | MOTOR RATED HORSEPOWER | VFD RATED HORSEPOWER | EFFICIENCY (%) | VOLTS | PHASE | MAX. OUTPUT CURRENT (AMPS) | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VFD-CHWP-HPCH-1-CPC | ABB ACH580 | CPC PLANT | HPCH-1 CHILLED WATER | PWM-6-PULSE | INTEGRAL 5% IMPEDENCE DC CHOKE; PROVIDE INPUT (LINE SIDE) OVERVOLTAGE PROTECTION. PROVIDE OUTPUT LINE REACTOR IF DRIVE IS MORE THAN 75' FROM MOTOR. | NEMA 1 | YES | 5 | 5 | 98 | 480 | 3 | 7.6 | UL LISTED; INPUT DRIVE DISCONNECT; FULL TEXT KEYPAD; RFI/EMI NOISE FILTER; EMS BACNET COMMUNICATION INTERFACE; DC BUS OVERVOLTAGE RELIEF; SYNCHRONOUS SPEED MATCHING. |
| VFD-HWP-HPCH-1-CPC | ABB ACH580 | CPC PLANT | HPCH-1 HEATING WATER | PWM-6-PULSE | INTEGRAL 5% IMPEDENCE DC CHOKE; PROVIDE INPUT (LINE SIDE) OVERVOLTAGE PROTECTION. PROVIDE OUTPUT LINE REACTOR IF DRIVE IS MORE THAN 75' FROM MOTOR. | NEMA 1 | YES | 5 | 5 | 98 | 480 | 3 | 7.6 | UL LISTED; INPUT DRIVE DISCONNECT; FULL TEXT KEYPAD; RFI/EMI NOISE FILTER; EMS BACNET COMMUNICATION INTERFACE; DC BUS OVERVOLTAGE RELIEF; SYNCHRONOUS SPEED MATCHING. |
| | | | | | | | | | | | | | | |
| VFD-PMP-BCHW-1-CPC | ABB ACH580 | CPC PLANT | CPC CHILLED WATER | PWM-6-PULSE | INTEGRAL 5% IMPEDENCE DC CHOKE; PROVIDE INPUT (LINE SIDE) OVERVOLTAGE PROTECTION. PROVIDE OUTPUT LINE REACTOR IF DRIVE IS MORE THAN 75' FROM MOTOR. | NEMA 1 | NO | 50 | 50 | 98 | 480 | 3 | 52 | UL LISTED; INPUT DRIVE DISCONNECT; FULL TEXT KEYPAD; RFI/EMI NOISE FILTER; EMS BACNET COMMUNICATION INTERFACE; DC BUS OVERVOLTAGE RELIEF; SYNCHRONOUS SPEED MATCHING. |
| VFD-PMP-BCHW-2-CPC | ABB ACH580 | CPC PLANT | CPC CHILLED WATER | PWM-6-PULSE | INTEGRAL 5% IMPEDENCE DC CHOKE; PROVIDE INPUT (LINE SIDE) OVERVOLTAGE PROTECTION. PROVIDE OUTPUT LINE REACTOR IF DRIVE IS MORE THAN 75' FROM MOTOR. | NEMA 1 | NO | 50 | 50 | 98 | 480 | 3 | 52 | UL LISTED; INPUT DRIVE DISCONNECT; FULL TEXT KEYPAD; RFI/EMI NOISE FILTER; EMS BACNET COMMUNICATION INTERFACE; DC BUS OVERVOLTAGE RELIEF; SYNCHRONOUS SPEED MATCHING. |
| VFD-PMP-BHW-1-CPC | ABB ACH580 | CPC PLANT | CPC HEATING WATER | PWM-6-PULSE | INTEGRAL 5% IMPEDENCE DC CHOKE; PROVIDE INPUT (LINE SIDE) OVERVOLTAGE PROTECTION. PROVIDE OUTPUT LINE REACTOR IF DRIVE IS MORE THAN 75' FROM MOTOR. | NEMA 1 | NO | 25 | 25 | 98 | 480 | 3 | 27 | UL LISTED; INPUT DRIVE DISCONNECT; FULL TEXT KEYPAD; RFI/EMI NOISE FILTER; EMS BACNET COMMUNICATION INTERFACE; DC BUS OVERVOLTAGE RELIEF; SYNCHRONOUS SPEED MATCHING. |
| VFD-PMP-BHW-2-CPC | ABB ACH580 | CPC PLANT | CPC HEATING WATER | PWM-6-PULSE | INTEGRAL 5% IMPEDENCE DC CHOKE; PROVIDE INPUT (LINE SIDE) OVERVOLTAGE PROTECTION. PROVIDE OUTPUT LINE REACTOR IF DRIVE IS MORE THAN 75' FROM MOTOR. | NEMA 1 | NO | 25 | 25 | 98 | 480 | 3 | 3.5 | UL LISTED; INPUT DRIVE DISCONNECT; FULL TEXT KEYPAD; RFI/EMI NOISE FILTER; EMS BACNET COMMUNICATION INTERFACE; DC BUS OVERVOLTAGE RELIEF; SYNCHRONOUS SPEED MATCHING. |
| | | | | | | | | | | | | | | |
| VFD-PMP-BCHW-1-HIH | ABB ACH580 | HEIFER INTERNATIONAL PLANT | HI CHILLED WATER | PWM-6-PULSE | INTEGRAL 5% IMPEDENCE DC CHOKE; PROVIDE INPUT (LINE SIDE) OVERVOLTAGE PROTECTION. PROVIDE OUTPUT LINE REACTOR IF DRIVE IS MORE THAN 75' FROM MOTOR. | NEMA 1 | NO | 15 | 15 | 98 | 480 | 3 | 23 | UL LISTED; INPUT DRIVE DISCONNECT; FULL TEXT KEYPAD; RFI/EMI NOISE FILTER; EMS BACNET COMMUNICATION INTERFACE; DC BUS OVERVOLTAGE RELIEF; SYNCHRONOUS SPEED MATCHING. |
| VFD-PMP-BCHW-2-HIH | ABB ACH580 | HEIFER INTERNATIONAL PLANT | HI CHILLED WATER | PWM-6-PULSE | INTEGRAL 5% IMPEDENCE DC CHOKE; PROVIDE INPUT (LINE SIDE) OVERVOLTAGE PROTECTION. PROVIDE OUTPUT LINE REACTOR IF DRIVE IS MORE THAN 75' FROM MOTOR. | NEMA 1 | NO | 15 | 15 | 98 | 480 | 3 | 23 | UL LISTED; INPUT DRIVE DISCONNECT; FULL TEXT KEYPAD; RFI/EMI NOISE FILTER; EMS BACNET COMMUNICATION INTERFACE; DC BUS OVERVOLTAGE RELIEF; SYNCHRONOUS SPEED MATCHING. |
| VFD-PMP-BHW-1-HIH | ABB ACH580 | HEIFER INTERNATIONAL PLANT | HI HEATING WATER | PWM-6-PULSE | INTEGRAL 5% IMPEDENCE DC CHOKE; PROVIDE INPUT (LINE SIDE) OVERVOLTAGE PROTECTION. PROVIDE OUTPUT LINE REACTOR IF DRIVE IS MORE THAN 75' FROM MOTOR. | NEMA 1 | NO | 15 | 15 | 98 | 480 | 3 | 23 | UL LISTED; INPUT DRIVE DISCONNECT; FULL TEXT KEYPAD; RFI/EMI NOISE FILTER; EMS BACNET COMMUNICATION INTERFACE; DC BUS OVERVOLTAGE RELIEF; SYNCHRONOUS SPEED MATCHING. |
| VFD-PMP-BHW-2-HIH | ABB ACH580 | HEIFER INTERNATIONAL PLANT | HI HEATING WATER | PWM-6-PULSE | INTEGRAL 5% IMPEDENCE DC CHOKE; PROVIDE INPUT (LINE SIDE) OVERVOLTAGE PROTECTION. PROVIDE OUTPUT LINE REACTOR IF DRIVE IS MORE THAN 75' FROM MOTOR. | NEMA 1 | NO | 15 | 15 | 98 | 480 | 3 | 23 | UL LISTED; INPUT DRIVE DISCONNECT; FULL TEXT KEYPAD; RFI/EMI NOISE FILTER; EMS BACNET COMMUNICATION INTERFACE; DC BUS OVERVOLTAGE RELIEF; SYNCHRONOUS SPEED MATCHING. |
| | | | | | | | | | | | | | | |

* DENOTES VARIABLE FREQUENCY DRIVE IS OF DIFFERENT HORSEPOWER THAN MOTOR HORSEPOWER.

## NATURAL GAS PRESSURE REGULATOR SCHEDULE

| DESIGNATION | TYPE | REFERENCE PRODUCT | LOCATION | SERVES | DESIGN CAPACITY (SCFH) | MAX INLET PRESSURE (PSIG) | MIN INLET PRESSURE (PSIG) | OUTLET (SET) PRESSURE (PSIG) | DROOP (%) | SCFH @ INLET PRESSURE | OVERPRESSURE SETPOINT (PSIG) | INLET LINE SIZE (IN) | MAX SPL (Dba) | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GPRV-NG-GEN-1&2-CPC | PILOT OPERATED REGULATOR | FISHER TYPE EZLOSX | CPC | GEN-1&2 | 11,000 | 60 | 10 | 5.0 | < 5 | 50,000 @ 10 PSIG<br>208,000 @ 60 PSIG | 15 | 2.0 | - | WROUGHT CARBON STEEL BODY; CLASS 150 FLANGES; NITRILE VALVE SEAT; PROVIDE WITH TYPE 61L OR TYPE 6352 PILOT WITH 0-10 PSIG OPERATING RANGE; PROVIDE WITH TRAVEL INDICATOR AND TYPE BM1 SLAM-SHUT MANOMETRIC SENSING DEVICE WITH MANUAL RESET AND 4-19 PSIG SPRING RANGE; PROVIDE WITH SPARE PARTS |
| GPRV-NG-GEN-3&4-CPC | PILOT OPERATED REGULATOR | FISHER TYPE EZLOSX | CPC | GEN-3&4 | 11,000 | 60 | 10 | 5.0 | < 5 | 50,000 @ 10 PSIG<br>208,000 @ 60 PSIG | 15 | 2.0 | - | WROUGHT CARBON STEEL BODY; CLASS 150 FLANGES; NITRILE VALVE SEAT; PROVIDE WITH TYPE 61L OR TYPE 6352 PILOT WITH 0-10 PSIG OPERATING RANGE; PROVIDE WITH TRAVEL INDICATOR AND TYPE BM1 SLAM-SHUT MANOMETRIC SENSING DEVICE WITH MANUAL RESET AND 4-19 PSIG SPRING RANGE; PROVIDE WITH SPARE PARTS |
| GPRV-NG-GEN-5-CPC | PILOT OPERATED REGULATOR | FISHER TYPE EZLOSX | CPC | GEN-5 | 11,000 | 60 | 10 | 5.0 | < 5 | 50,000 @ 10 PSIG<br>208,000 @ 60 PSIG | 15 | 2.0 | - | WROUGHT CARBON STEEL BODY; CLASS 150 FLANGES; NITRILE VALVE SEAT; PROVIDE WITH TYPE 61L OR TYPE 6352 PILOT WITH 0-10 PSIG OPERATING RANGE; PROVIDE WITH TRAVEL INDICATOR AND TYPE BM1 SLAM-SHUT MANOMETRIC SENSING DEVICE WITH MANUAL RESET AND 4-19 PSIG SPRING RANGE; PROVIDE WITH SPARE PARTS |
| GPRV-NG-CPC | DIRECT ACTING - SPRING - DIAPHRAGM REGULATOR | FISHER TYPE CSB604FET | CPC | CPC & NARA | 11,500 | 60 | 10 | 0.5<br>(14" w.c.) | < 10 | 13,000 @ 10 PSIG<br>60,000 @ 60 PSIG | 15 | 2.0 | - | WROUGHT CARBON STEEL BODY; CLASS 150 FLANGES; NITRILE VALVE SEAT; PROVIDE WITH TYPE VSX8 OVERPRESSURE SLAM-SHUT DEVICE. |


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NOT FOR CONSTRUCTION

CORPORATE SEAL

ENGINEER SEAL

CLINTON SUSTAINABLE ENERGY DISTRICT - PACKAGE 2

CLINTON FOUNDATION

1200 PRESIDENT CLINTON AVE LITTLE ROCK, ARKANSAS

| MARK | DATE | DESCRIPTION |
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| ISSUE DATE: | 11/20/2025 |
| PROJECT NUMBER: | 561470540 |

SHEET TITLE:

EQUIPMENT SCHEDULES - MECHANICAL

SHEET NUMBER:

M002