

# SPECIFICATIONS FOR PRO-TEMP 64 SERIES CONTROLLERS

#### **Environmental:**

All inputs and outputs are protected from electro-static discharge (ESD) and radio frequency interference (RFI). ESD protection is rated to 50,000 volts. RFI protection is rated to 15 V/M from 20 MHz to 300MHz. Operating temperature range is 34 F to 130 F, in a non-condensing atmosphere.

#### **Outputs:**

Dry contacts are rated at 750mA maximum under inductive load. A seven-day time clock scheduler provides set point adjustment with up to 20 schedules per week.

### **Analog Inputs:**

Each input point measures voltage in a range of 0 to 10 volts with a resolution of 0.005 volts. These points are directly compatible with 10K @ 25C Thermister temperature sensors (no external interface is required). Temperature range is -30 F to 230 F with a resolution of 0.1 F, and absolute accuracy of +/- 1 F. No calibration is required. Interface to temperature sensors are supported using 0 to 10 volt inputs.



#### **Product Specifications**

#### **Enclosure:**

Epoxy coated CRS metal with lockable door.

Dimensions: 5"W x 6.75"H x 2.25"D.

Weight: 2.5lbs

## **Analog Inputs:**

Quantity: 2

Type: Thermister Range: -30 F to 230 F Resolution: 0.1 F

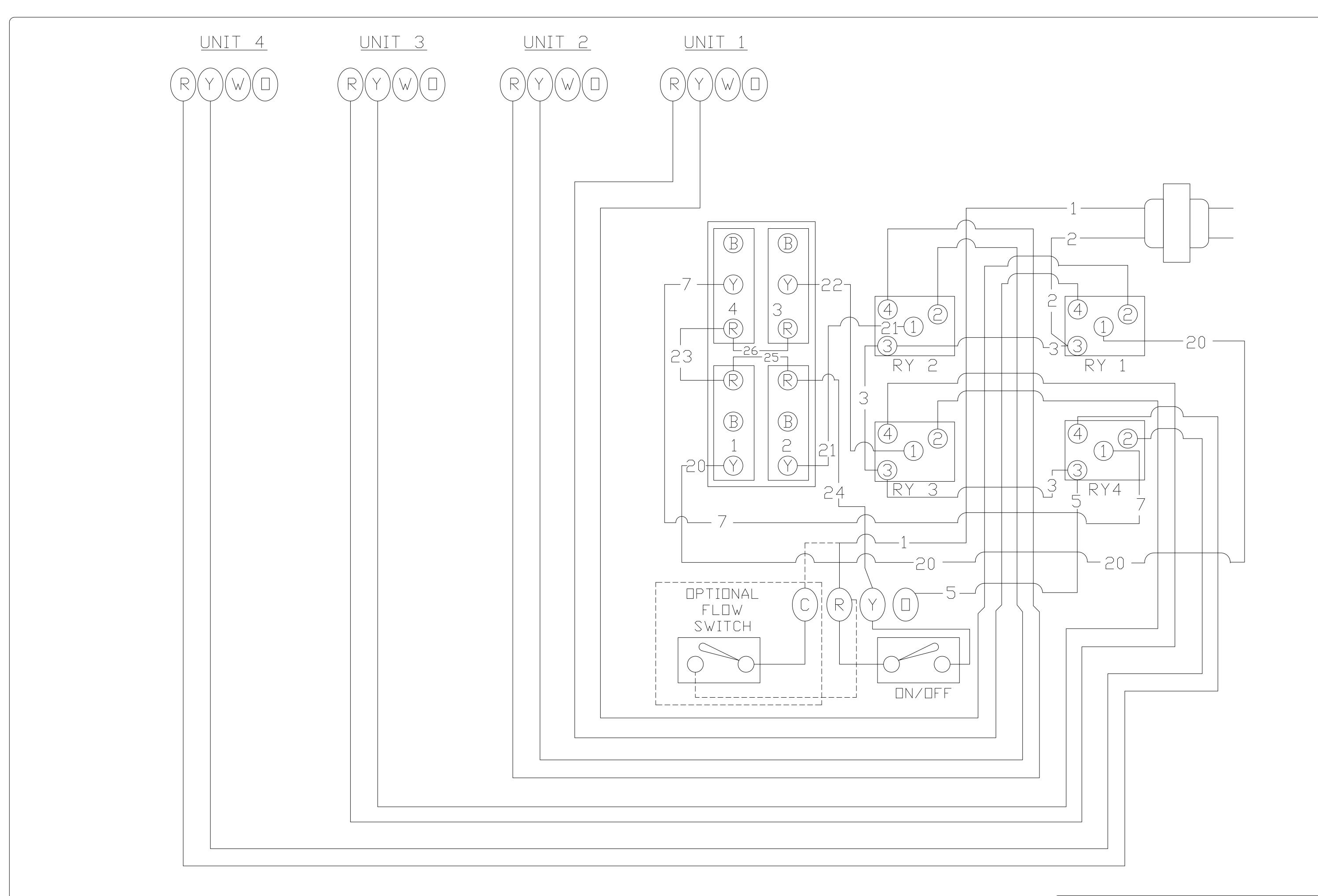
# **Relay Outputs:**

Quantity: 2 Type: N/C

Contact Rating: 750mA inductive load

# **Power Requirements:**

24 VAC at 20 VA



LIABILITY

This drawing and our recommendations and suggestions, are intended to assist our customers. Our design represents our best judgment based on our experience and the best facts provided to us, any use thereof is at the sole risk of the customer.

It is assumed that the customer will install the THAW-PAK system in compliance with all local, state and national codes.

BELMONT I

CAMBRIDGE WOODS APTS.
3365 AIRPORT HIGHWAY

PAK DISTRIBUTOR:
[RFORMANCE engineering group]

DRAWN BY:
Gordon Faustich
REVIEWED BY:
AD
APPROVED BY:

PROPERTY OF THAW-PAK

This drawing is the property o
THAW-PAK, it has been
prepared to assist in the
installation of our system.
Customer agrees to keep
confidential and not disclose
this drawing or
copies thereof without

our written consent.

DRAWING NO. 13-009P\_G

SHEET NO.

ACF HEAT RECOVERY / DOMESTIC HOT WATER LOGIC SINGLE ACF60-HR UNIT

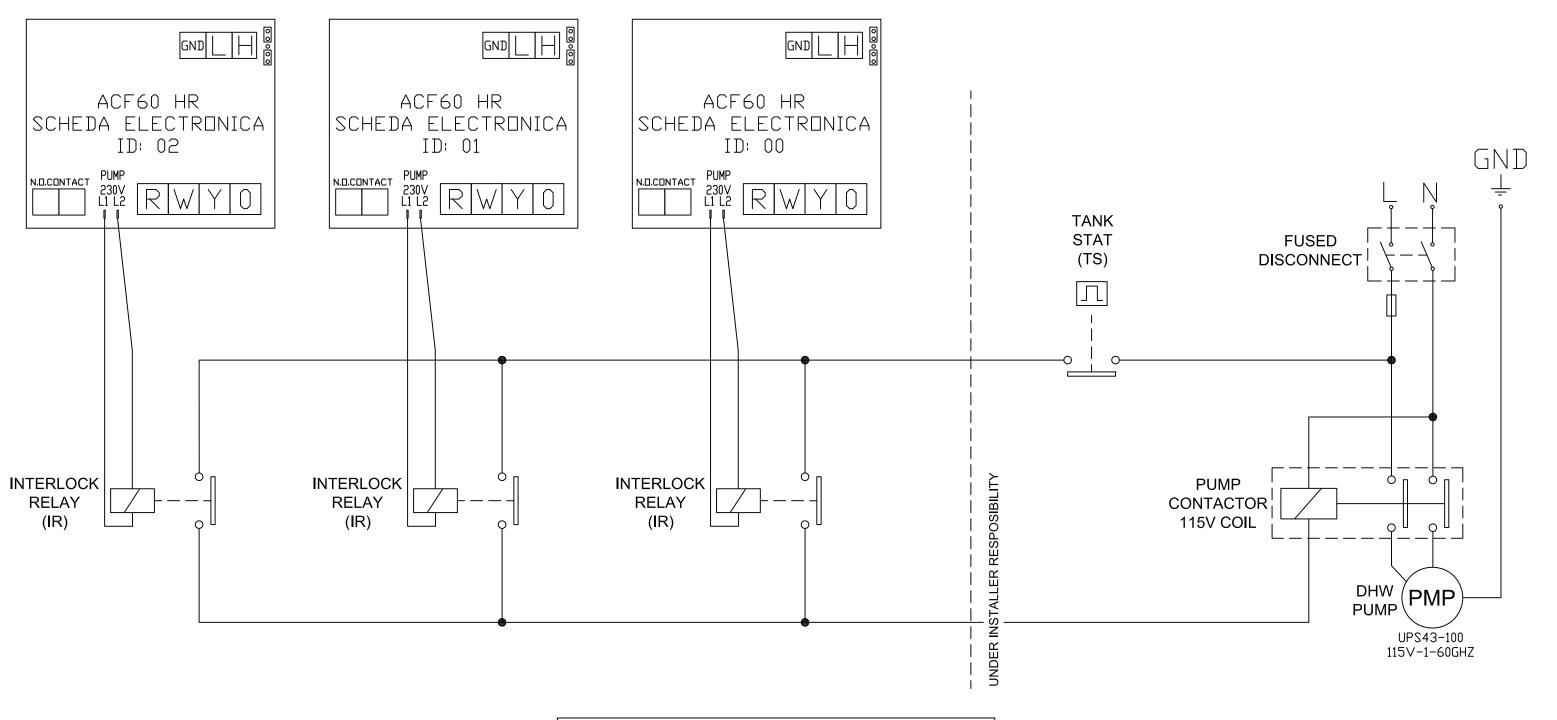
INTERLOCK RELAY (IR) - SUPPLIED WITH ACF UNIT: MAY BE LABELED (KP1) WILL ONLY ALLOW DHW OPERATION IF THE CHILLER IS OPERATING.

TANK STAT (TS): WILL SHUT OFF THE DHW PUMP IF TANK TEMPERATURE REACHES SET POINT.

FUSED DISCONNECT: MANUAL ON / OFF SERVICE DEVICE FOR 120 VOLT POWER SUPPLY TO DHW PUMP (15 AMP).

PUMP CONTACTOR: 15 / 20 AMP RATED CONTACTOR WITH 120V COIL TO CONTROL THE ON / OFF POWER OPERATION OF THE DHW PUMP (CONTROLLED BY IR AND / OR TS).

DHW PUMP: GRUNDFOS UPS43-100F - CIRCULATES GLYCOL MIXTURE BETWEEN THE HR COIL OF THE CHILLER AND THE HEATING COIL IN THE SMART TANK.



ACF HEAT RECOVERY / DOMESTIC HOT WATER DIAGRAM MULTIPLE ACF60-HR UNITS (SEE SINGLE UNIT FOR LOGIC)

# HEAT RECOVERY ELECTRICAL DIAGRAMS

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BELMONT MGT

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SHEET NO.

E2