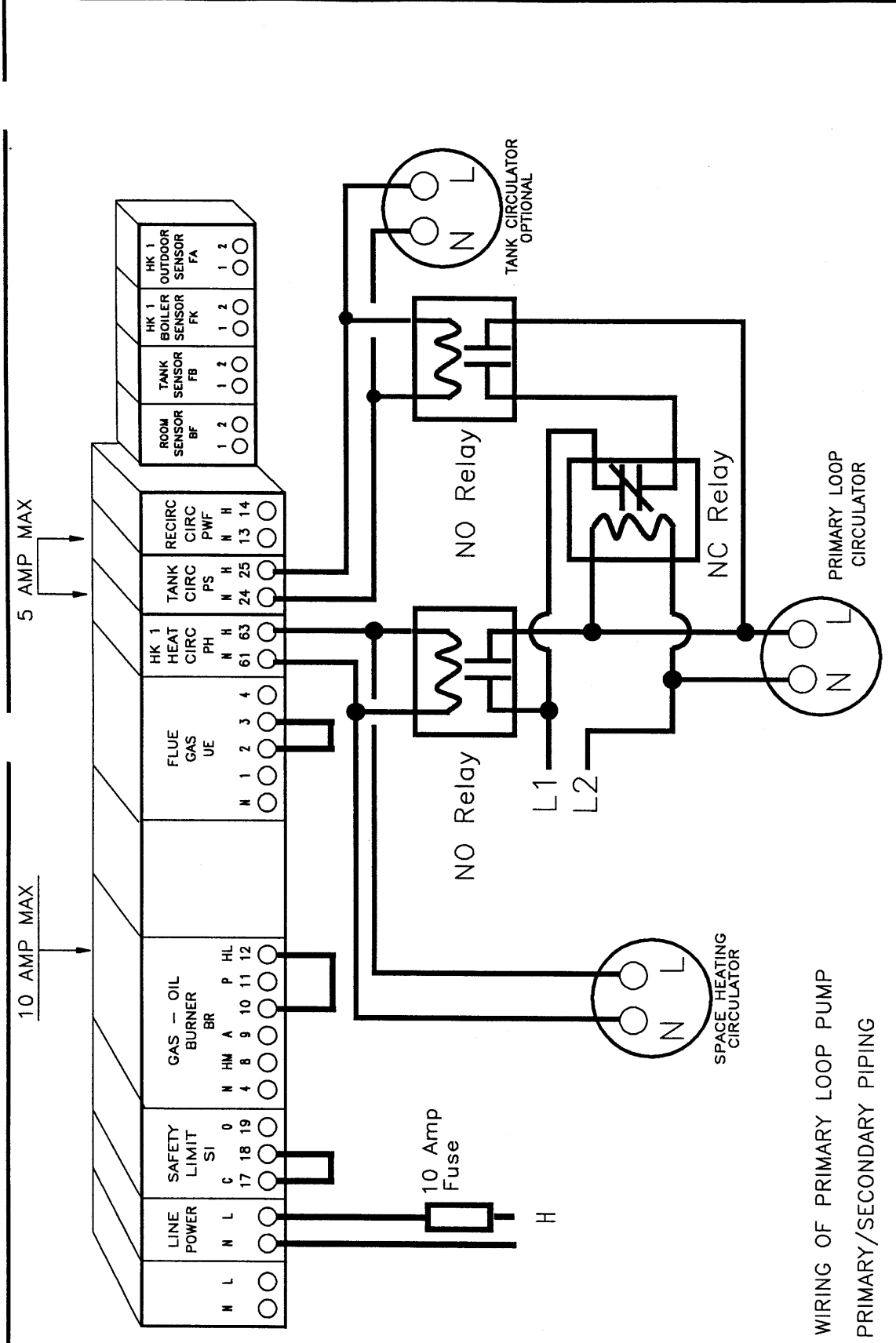


Buderus Hydronic Systems, Inc.

Date: June 18, 1999

Supplemental Ecomatic HS2105 Wiring Schematics

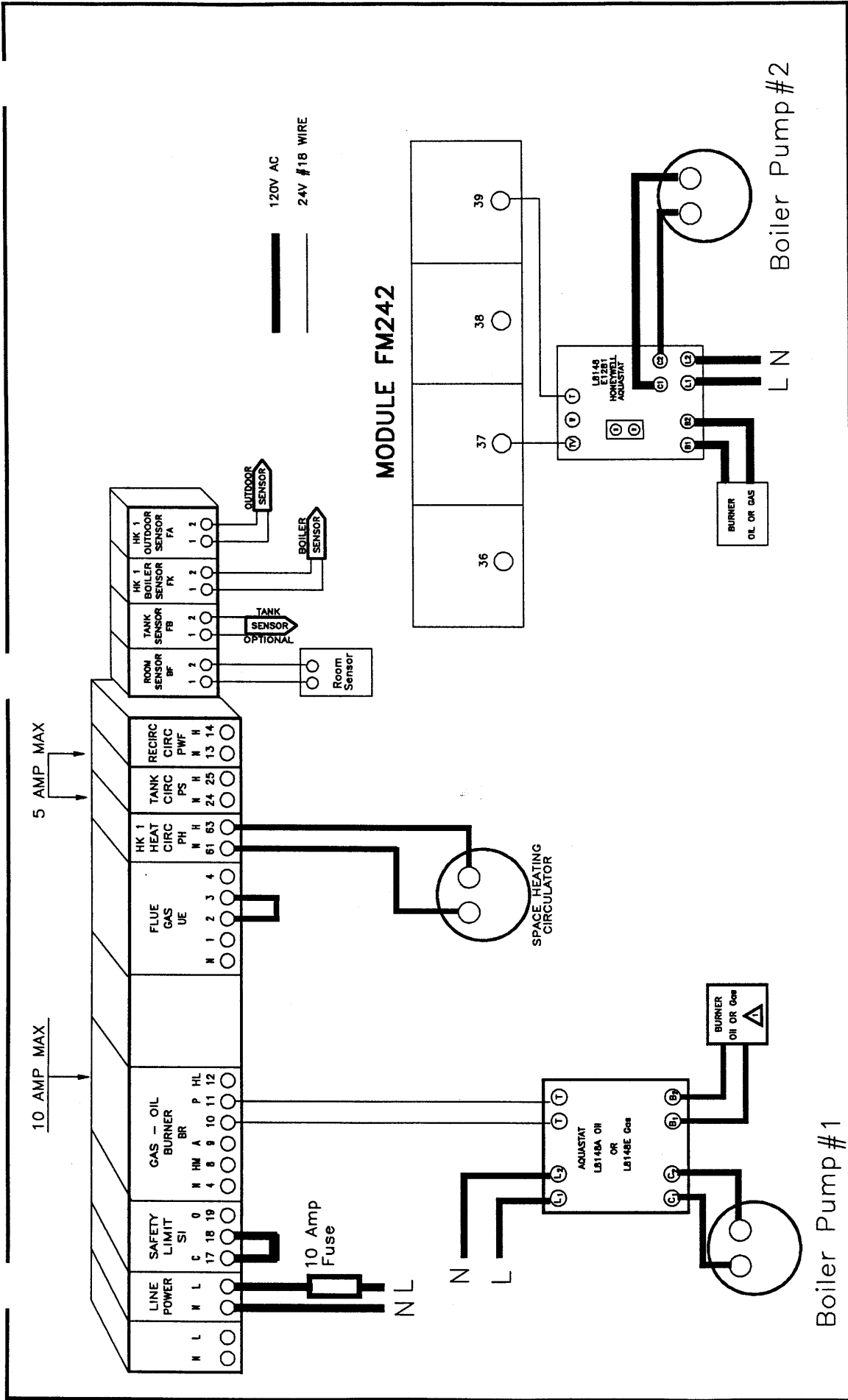
Filename	Application Description
HIGHTP.DC2	On-demand high temperature zones (can not use constant circulation on HK1 circuit). e.g. Airhandlers, high temp heat exchanger. Requires L8148A/E aquastat on the boiler in addition to the Ecomatic. On demand zone is wired directly to L8148A/E.
PRIMSEC2.DC2	Wiring of system pump in primary/secondary piping. Operates system pump for both space heating and DHW heating.
DUALB.DC2	Wiring 2 boilers in primary/secondary piping with individual boiler pumps (requires module FM242).
2XSP34D.DC2	Control of 2 independent DHW tanks. Requires SP34D control on each tank for temperature and individual circulator control. Requires resistors as shown and call must be satisfied within 30 minutes.
PRIOT2X.DC2	Priority staged control of 2 DHW tanks or setpoint controls. Requires 1 SP34D control for highest priority. Ecomatic sensor senses second priority.
HE2ONDEM.DC2	Wiring of on-demand heat exchanger and DHW tank. Requires 1 SP34D for DHW tank control. On-demand zone does not maintain temperature. Requires resistors as shown and call must be satisfied within 30 minutes.
HS2105PIPING	General piping schematic for single boiler with LHL burner, DHW load, and 3 different water temperatures using single motorized 3-way valve and manual 3-way valve.



WIRING OF PRIMARY LOOP PUMP
PRIMARY/SECONDARY PIPING

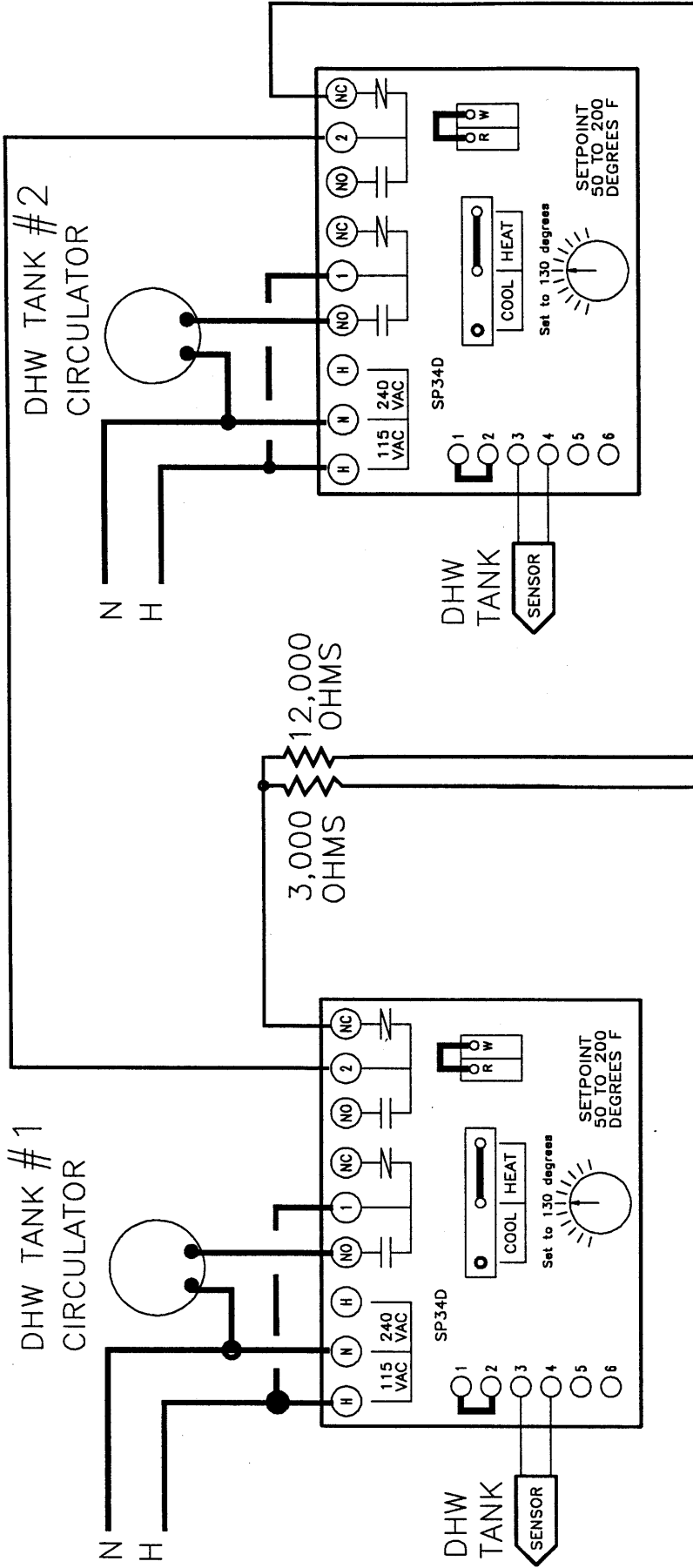
(ii) This wiring diagram is generic in scope and does not purport to address all design, installation or safety considerations. This diagram is for reference use by code officials, designers, and licensed installers. It is expected that installers have an adequate knowledge of accepted industry practices for the equipment, procedures, and applications involved.

BUDERUS HYDRONIC SYSTEMS		FILE NAME	TYPE
		primsec2.dcd2	Ecomatic Application
DATE	/ /	DRAWN BY	FOR
6/6/99		LGV	Wiring of Primary/System Pump



(ii) This wiring diagram is generic in scope and does not purport to address all design, installation or safety considerations. This diagram is for reference use by code officials, designers, and licensed installers. It is expected that installers have an adequate knowledge of accepted industry practices for the equipment, procedures, and applications involved.

BUDERUS HYDRONIC SYSTEM	FILE NAME DUALB.DC2	TYPE ECOMATIC APPLICATION WITH 2 BOILERS
DATE 6/8/99	DRAWN BY LGV	APPROVED BY FOR PRIMARY/SECONDARY WITH BOILER PUMPS



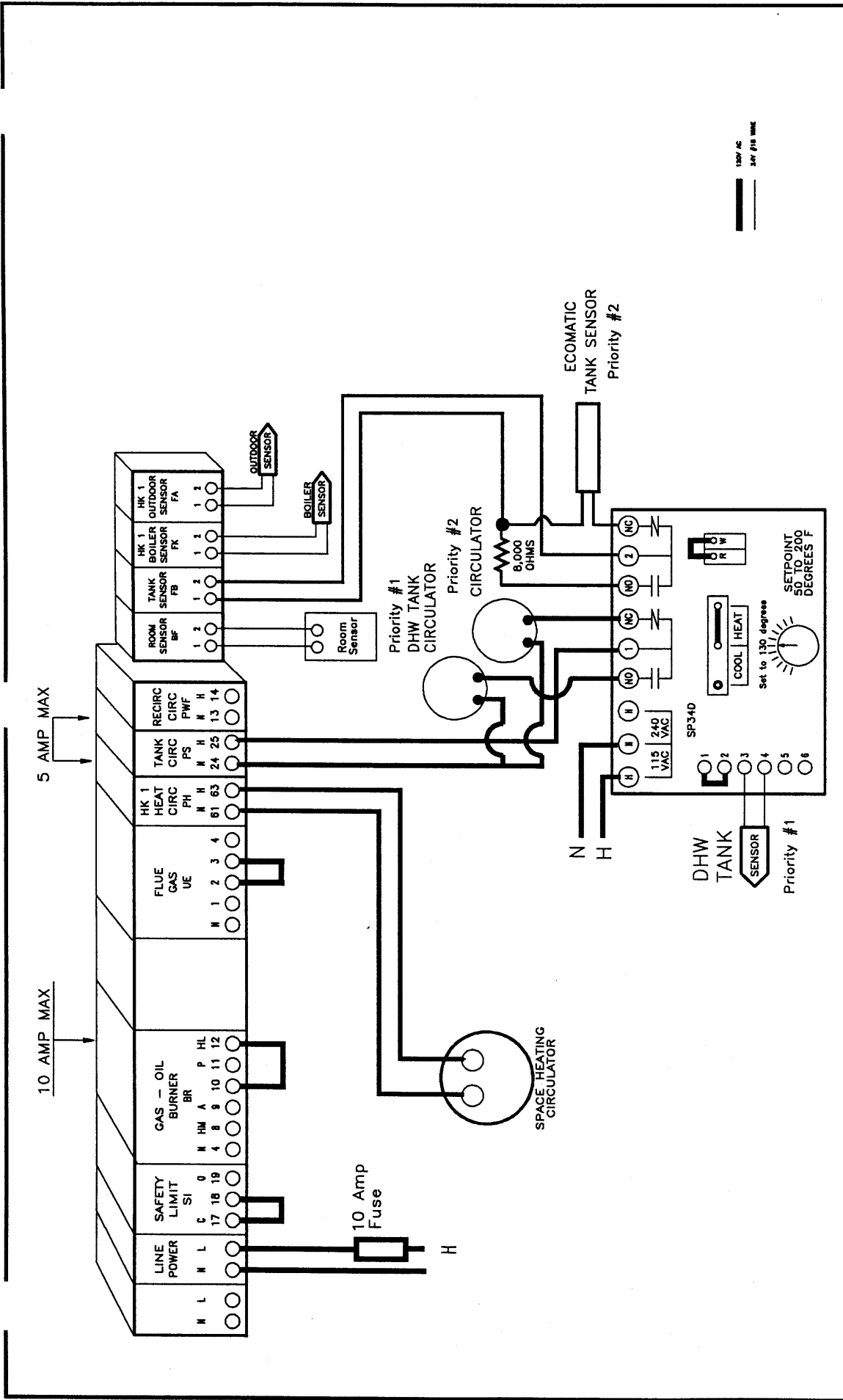
120V AC
 24V #18 WIRE

Set DHW setting on HS2105 to equivalent of 3,000 OHMS
 Do NOT use resistors with HW3302 or HS3220.
 "Fake" DHW call must be satisfied within 30 minutes.

ECOMATIC
 TANK SENSOR

(ii) This wiring diagram is generic in scope and does not purport to address all design, installation or safety considerations. This diagram is for reference use by code officials, designers, and licensed installers. It is expected that installers have an adequate knowledge of accepted industry practices for the equipment, procedures, and applications involved.

BUDERUS HYDRONIC SYSTEM		FILE NAME	2xsp34d.dc2	TYPE	Ecomatic Application
DATE	6/6/99	DRAWN BY	LGV	APPROVED BY	FOR
				Control of 2 independent DHW Tanks	



(ii) This wiring diagram is generic in scope and does not purport to address all design, installation or safety considerations. This diagram is for reference use by code officials, designers, and licensed installers. It is expected that installers have an adequate knowledge of accepted industry practices for the equipment, procedures, and applications involved.

BUDERUS HYDRONIC SYSTEMS	FILE NAME	PRIOTX.DC2	TYPE	ECOMATIC & SP34D APPLICATION
DATE	DRAWN BY	LGV	FOR	2 STAGED DHW PRIORITY LOADS
		6/6/99		

ECOMATIC HS2105 PIPING & CONTROL SCHEMATIC

OUTDOOR RESET WITH 3 TEMPERATURES, 2-STAGE BURNER AND DHW

