

Product Information Packet

Model TLC-1200

Custom 24 VDC Solid State Liquid Chiller

Without Temperature Control

Part # 6-3095-0-000

Thank you for your purchase. Information has been enclosed regarding the installation, specifications, and wiring of your solid-state assembly. Please read and follow all instructions carefully before installation. Only qualified technicians should install this equipment.

If you have any questions regarding your equipment, please do not hesitate to call us at 773-342-4900, and we will be happy to assist you. We are open from 8:00 am-4:30 pm Central Time.

Included in this packet you will find:

Installation Notes for Air Conditioners

Product Literature and Specifications

Assembly Drawing # SK110405

Wiring Drawing # SK110566

Alternate TE Wiring # SK11067

Individual LJ Wiring # AK110568

Warranty Information



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TLC-1200

Air Cooled Liquid Chiller

Air Cooled

General Purpose 24 VDC input

FEATURES

- Two separate fluid cooling circuit
- Weighs only 20 lbs. (9.1 kg)
- Mount thru bench top or enclosure wall
- No compressor, fluorocarbons or filters
- Virtually maintenance-free operation
- Stainless steel exterior housing
- Mounts in any orientation



INCLUDES

- 3/8" OD Stainless steel tubing
- Internal H-Bridge for reverse polarity operation on HC versions
- Rubber feet
- Power input leads

SPECIFICATIONS

MODEL	PART NUMBER	PERFORMANCE RATING BTU/HR	VOLTAGE VDC	CURRENT AMPS.	WEIGHT LBS. (KG)	MAX OPERATING AMBIENT	HEATING OPTION	TEMP. CONTROL	FLUID TEMP RANGE °C
TLC-1200	6-3095-0-000	830-950	24	9.0	20 (9.1)	50 °C(+122 F)	Cool Only	None	-5/65
TLC-1200	6-3055-0-000	830-950	24	9.0	20 (9.1)	50 °C(+122 F)	Cool Only	EXT*	-5/65
TLC-1200HC	6-3055-1-000	830-950	24	9.0	20 (9.1)	50 °C(+122 F)	Heat/Cool	EXT**	-5/65

* Unit is set for 5-32 VDC external control signal, relay included

** Unit is set for 5-32 VDC external control signal, H-Bridge relay(s) included

TLC-1200

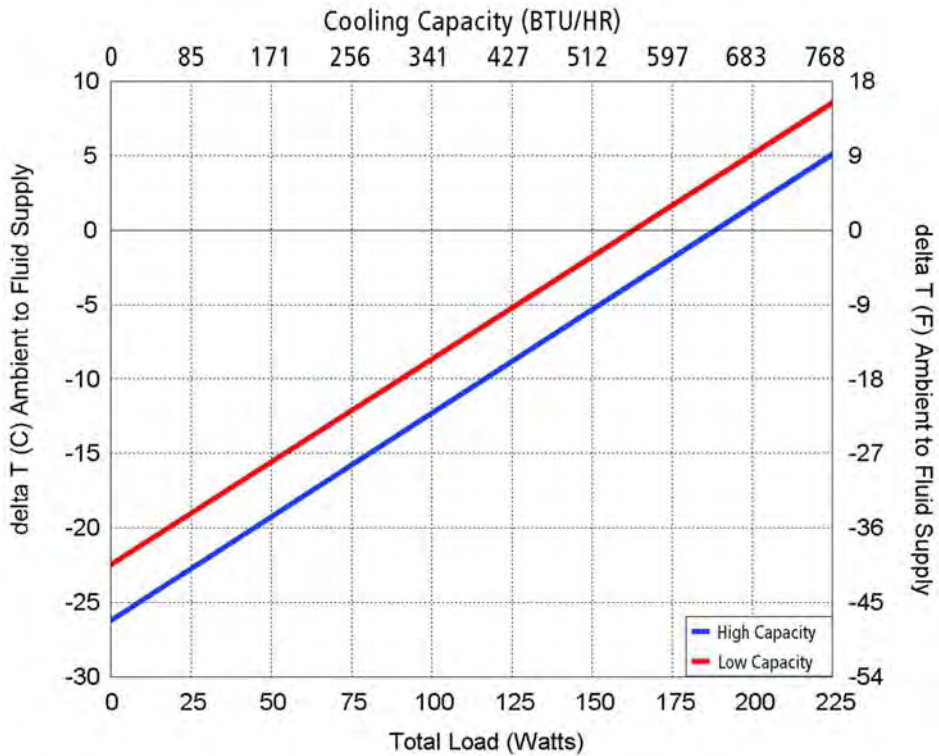
ENVIRONMENTS

Bench top
Laboratory
Industrial

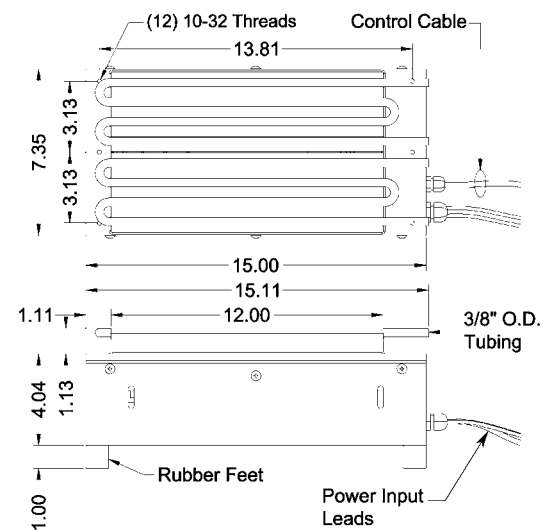
COOLING CAPACITY

215 Watts @ 0 °C ΔT

PERFORMANCE CURVE

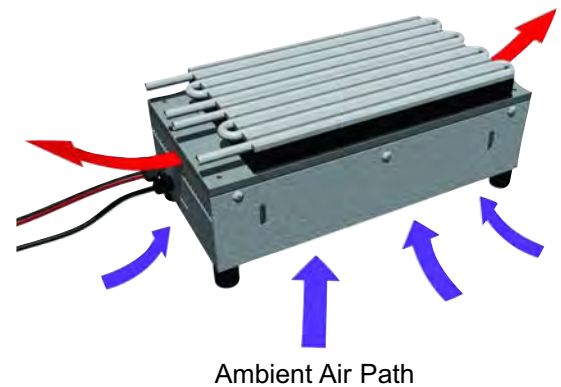
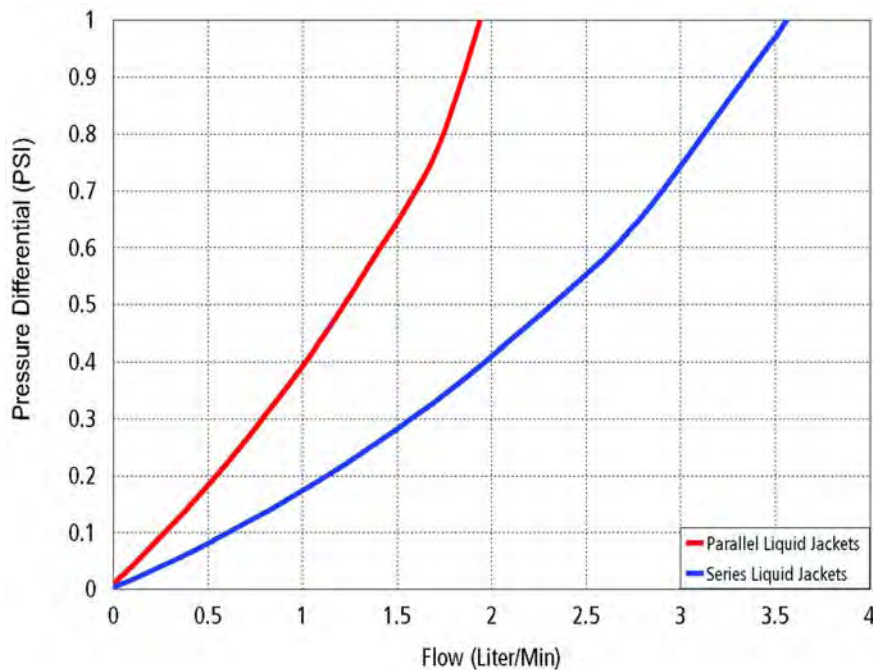


DIMENSIONS

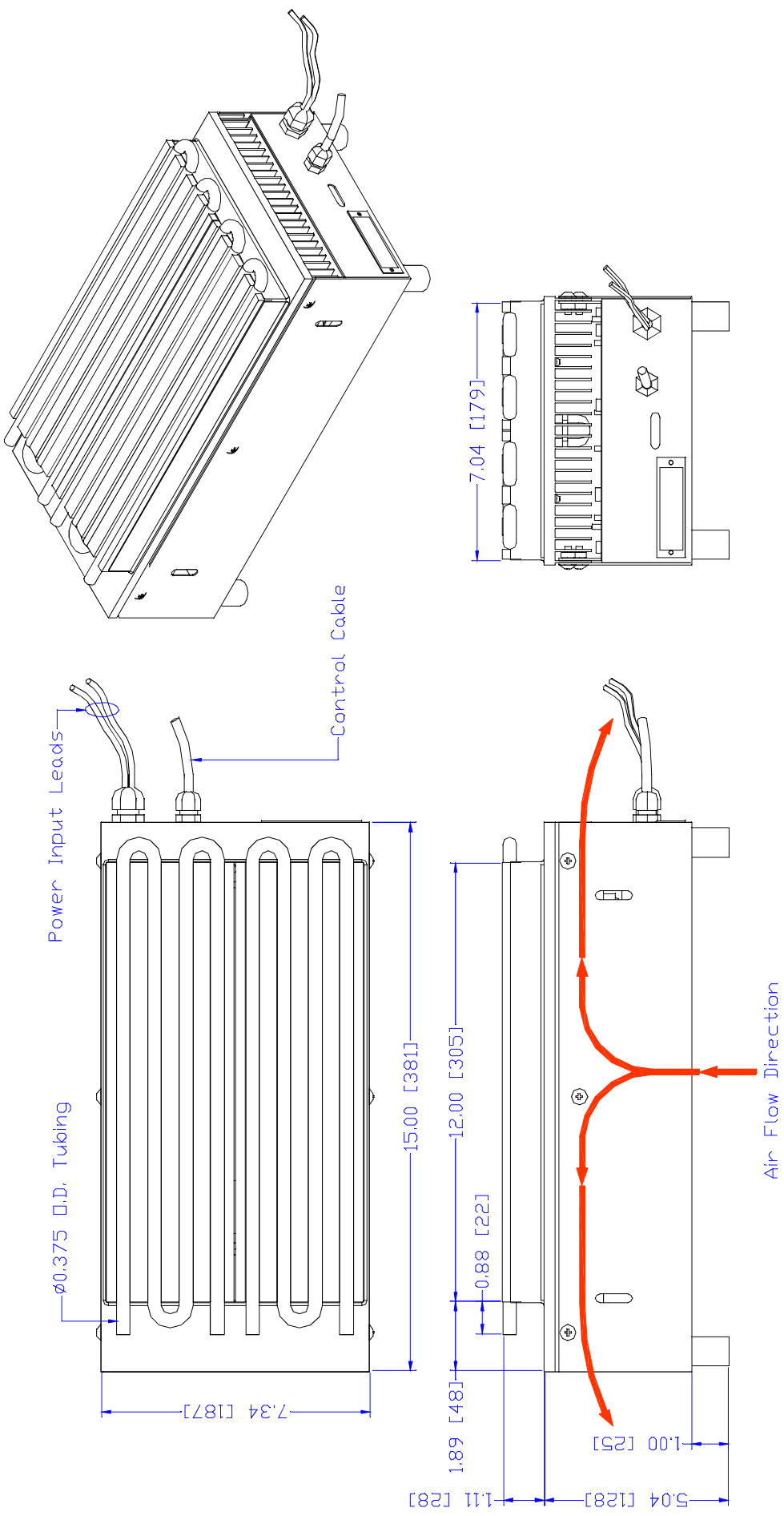


Dimensions: Inches

FLOW CHARACTERISTICS



Ambient Air Path



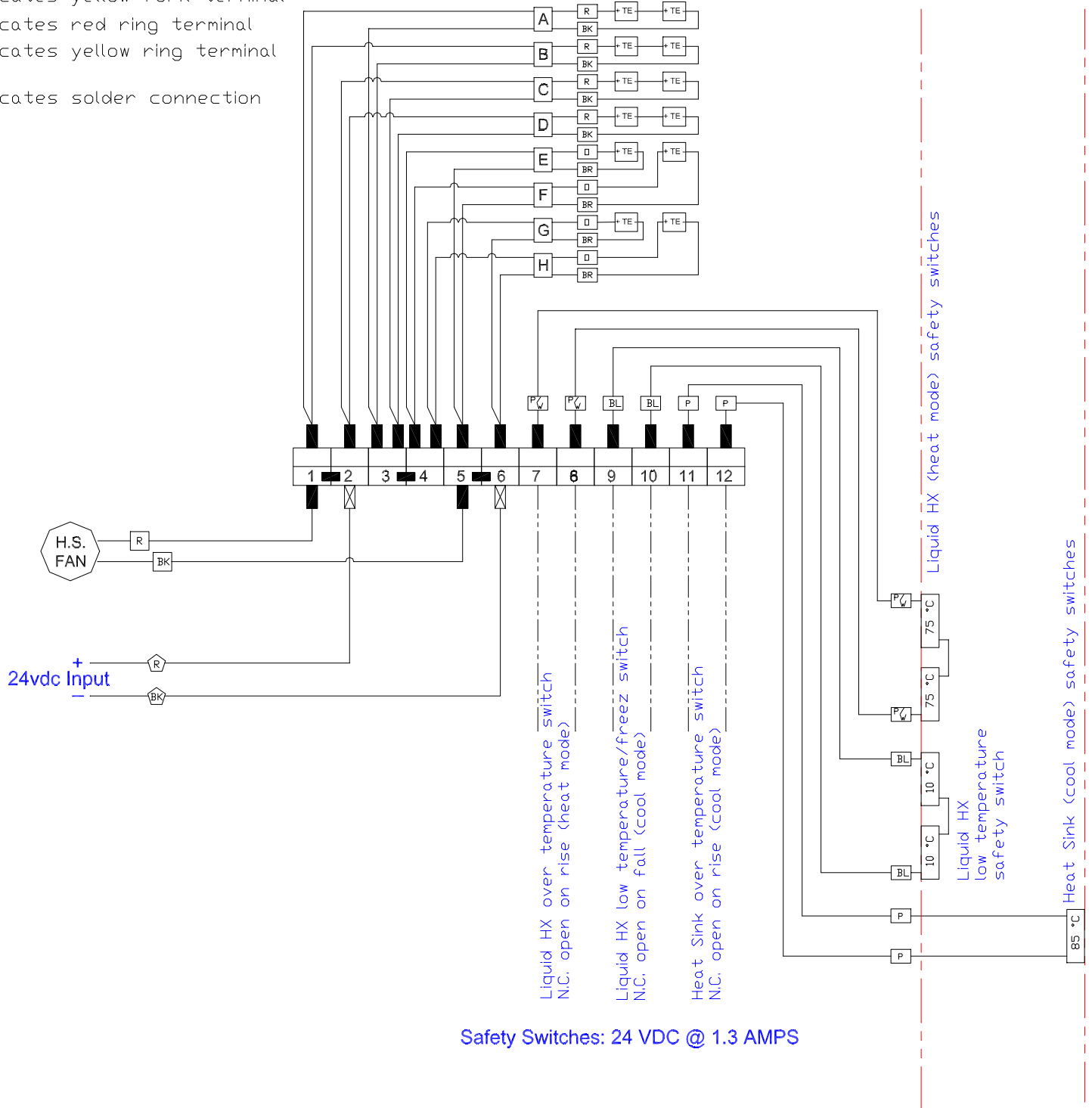
Notes:

- Dimension: Inches [Millimeters]
- Dimensions do not include hardware and sealant thickness.

REV	DESCRIPTION	Date	APPROVED	FINISH:	INFORMATION DISCLOSED HEREIN IS THE CONFIDENTIAL PROPERTY OF TECA CORP. RECIPIENT SHALL NOT USE THE INFORMATION IN ANY UNAUTHORIZED MANNER.	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:	THERMOELECTRIC COOLING AMERICA CORP.			
				MATERIAL:		TOLERANCES ARE:		TLC-1200 ASSEMBLY		
				DECIMALS		ANGLES		DRAWN BY: 11		
				.XX +/-		FRACTION		DATE: 04/04/11		
				.XXX +/-		+/-		DRAWING # SK110405		
								SCALE D8004		
								MASTER: SK110401		
								REV LEVEL		
								SHEET		

- ◻ Indicates 12 AWG wire
◻ Indicates 22 AWG wire

- Indicates red fork terminal
⊠ Indicates yellow fork terminal
● Indicates red ring terminal
⊠ Indicates yellow ring terminal
● Indicates solder connection

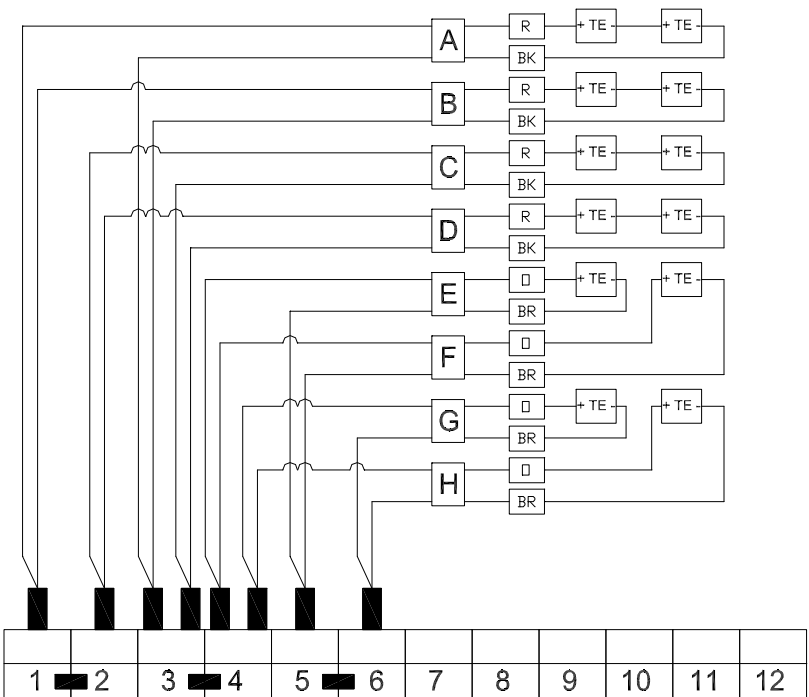


Safety Switches: 24 VDC @ 1.3 AMPS

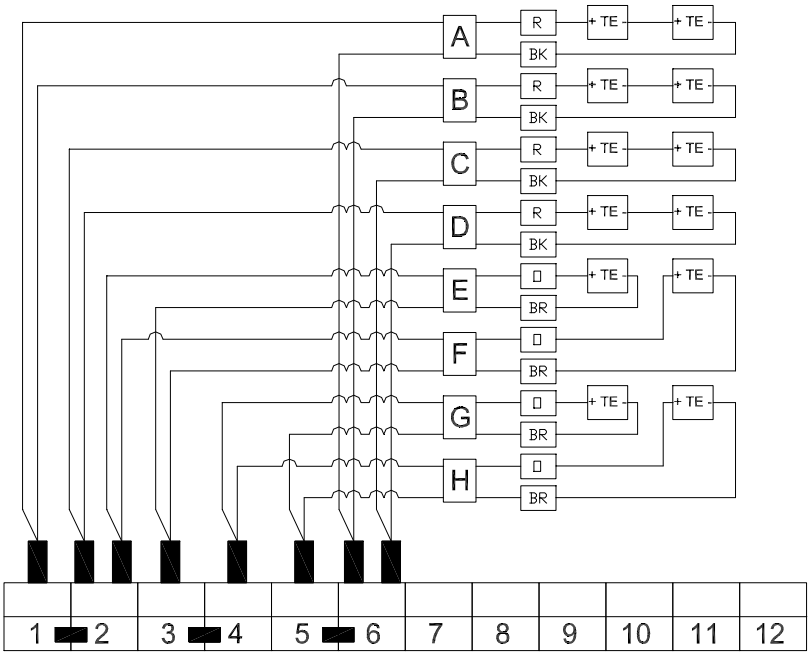
Factory wired for high efficiency (8 VDC/TE) Reference drawing # SK110404.

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		DECIMALS	ANGLE	TLC-1200 WITHOUT CONTROL WIRING DIAGRAM			
FINISH:		.XX +/-	+/-	DRAWN BY:		DRAWING #	
		.XXX +/-	FRACTION	AA		SK110566	
MATERIAL:				DATE:		SCALE	
				05/31/11		MASTER:	
				D8096		SK110403	
						SHEET	

REV	DESCRIPTION	Date	APPROVED



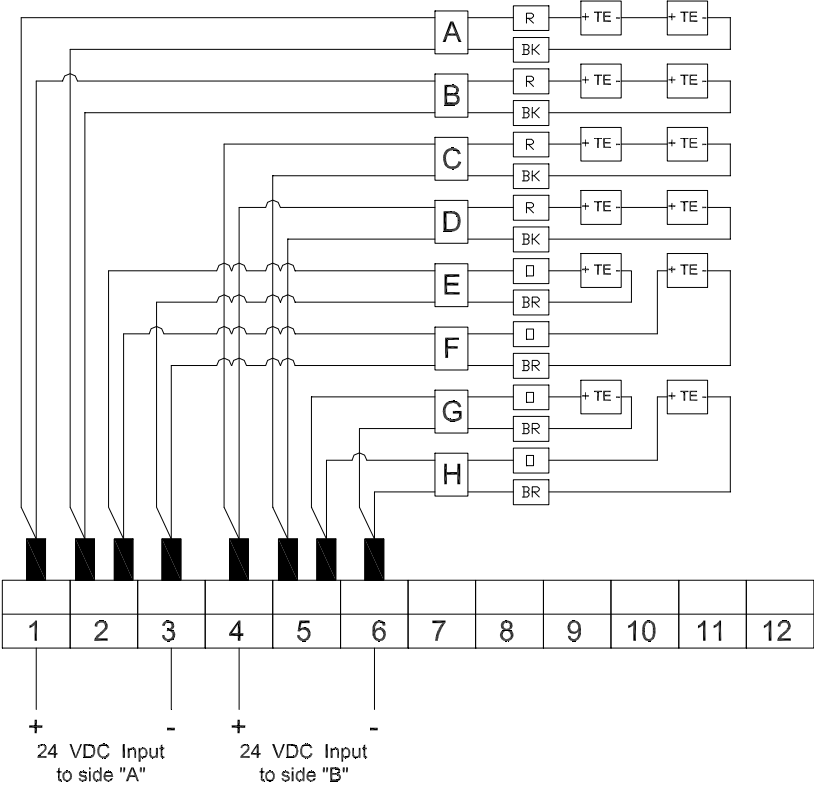
Factory (standard capacity) TE wiring
Thermoelectrics wired for 8 VDC/TE.



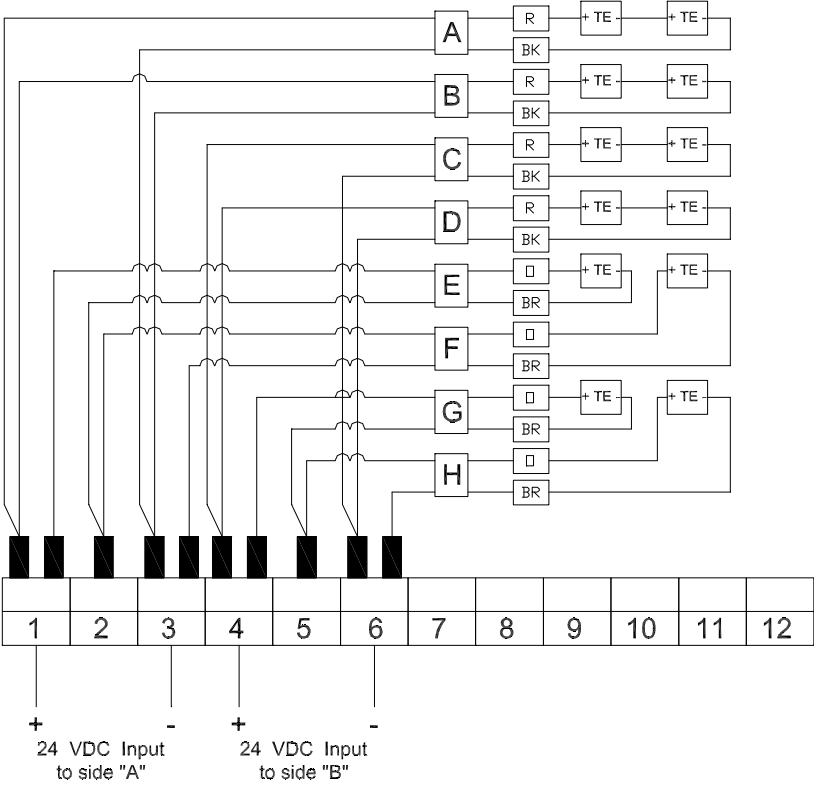
Alternate (high capacity) TE wiring
Thermoelectrics wired for 12 VDC/TE.

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	DECIMALS .XX +/- .XXX +/-	ANGLE +/- FRACTION +/-	TLC-1200 WITHOUT CONTROL STANDARD AND ALTERNATE TE WIRING		
	MATERIAL:		DRAWN BY: AA	DRAWING # SK110567	REV LEVEL
			DATE: 05/31/11 D8097		SHEET
			SCALE	MASTER: SK110403	

REV	DESCRIPTION	Date	APPROVED



Alternate wiring for runing individual liquid jackets (standard capacity 8 VDC/TE)



Alternate wiring for runing individual liquid jackets (high capacity 12 VDC/TE)

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	DECIMALS .XX +/- .XXX +/-	ANGLE +/- FRACTION +/-	TLC-1200 WITHOUT CONTROL ALTERNATE WIRING FOR CONTROLLING INDIVIDUAL LIQUID JACKET		
	FINISH:	MATERIAL:	DRAWN BY: AA	DRAWING # SK110568	REV LEVEL
			DATE: 05/31/11	SCALE D8098	MASTER: SK110403 SHEET

LIMITED WARRANTY

In the event a defect in material or workmanship is discovered in any of TECA's products within one year after the date they are delivered to Buyer, and if: (a) TECA is notified of the defect in writing by certified mail within 14 days of the date of discovery; (b) TECA may then either, at its sole discretion, inspect the product at Buyer's location, or require that the product be made available at Buyer's expense at TECA's premises for TECA's inspection within 14 days of the date of notification; and (c) the products are defective and the defects result from faulty materials and/or workmanship and not in any way from accident, misuse, misapplication, mishandling, modification, or alteration by the Buyer or the shipper, then TECA shall, at its sole option, repair or exchange defective products free of charge to Buyer, or credit to buyer the price of the defective products. ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE EXCLUDED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL TECA BE LIABLE FOR ANY CLAIM BASED UPON BREACH OF EXPRESS OR IMPLIED WARRANTY OR ANY OTHER DAMAGES WHETHER SPECIAL, INDIRECT, INCIDENTAL, CONSEQUENTIAL, LOST PROFITS, BUSINESS INTERRUPTION, OR LOSS OF BUSINESS OR CUSTOMER RELATIONSHIPS.

RETURNED GOODS, RESTOCKING CHARGES

In order to return merchandise for any reason (repair, replacement, or credit) a return authorization number must be issued by TECA. New merchandise may not be returned for credit beyond 60 days from shipment. Charges for incidental or other damages may also be made. All returned goods must be sent freight prepaid. A restocking charge of 15% will apply. On special equipment and custom modified equipment orders, additional incremental cancellation charges may be made.