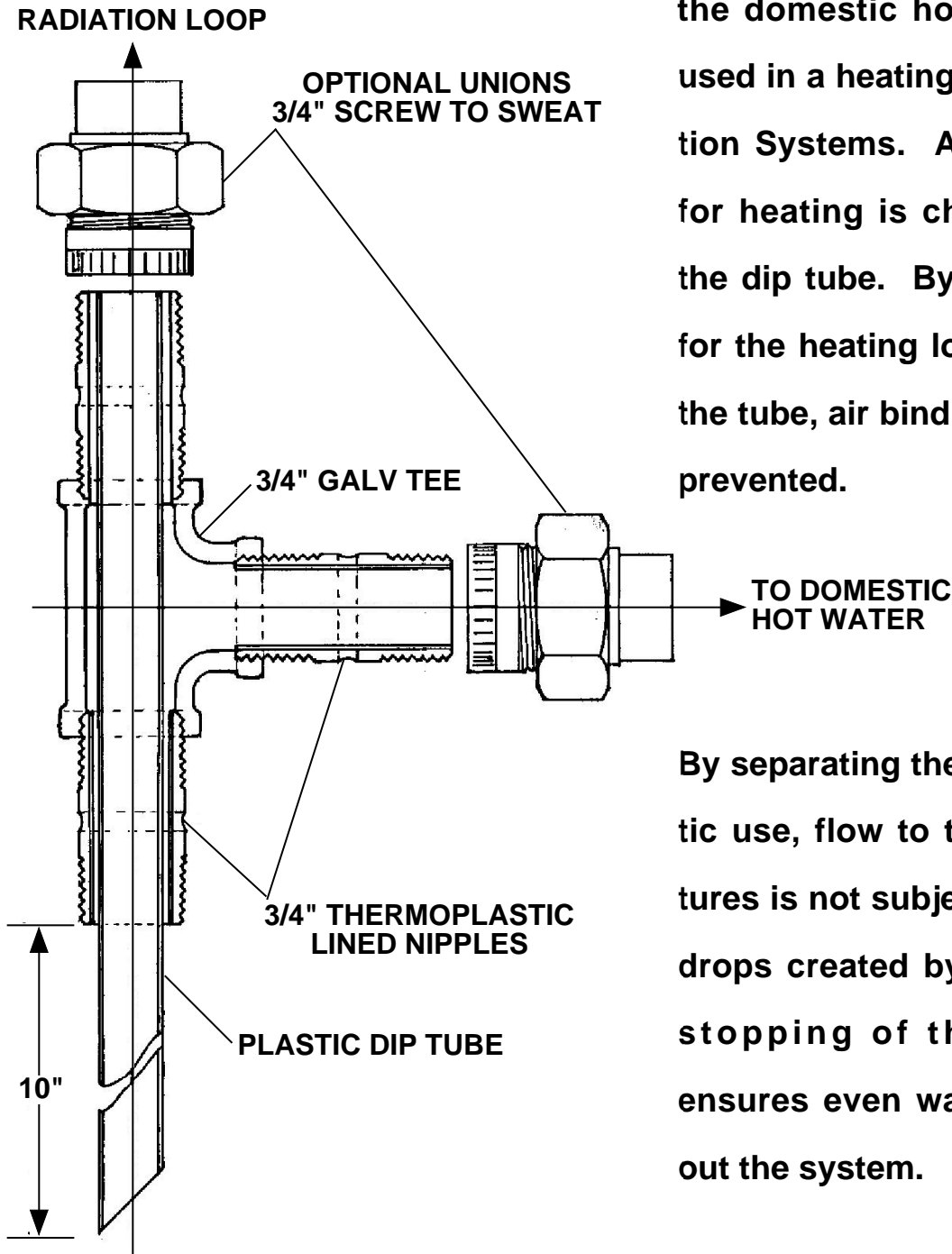


DHW SPLITTER

Model Number
DHW-1

PREVENT PUMP AIRLOCK • ENSURE EVEN WATER FLOW

THE DHW SPLITTER separates the domestic hot water from that used in a heating loop in Combination Systems. All the water used for heating is channeled through the dip tube. By having the water for the heating loop come through the tube, air binding of the pump is prevented.



By separating the water for domestic use, flow to the faucets or fixtures is not subject to the pressure drops created by the starting and stopping of the pump. This ensures even water flow throughout the system.

DHW SPLITTER

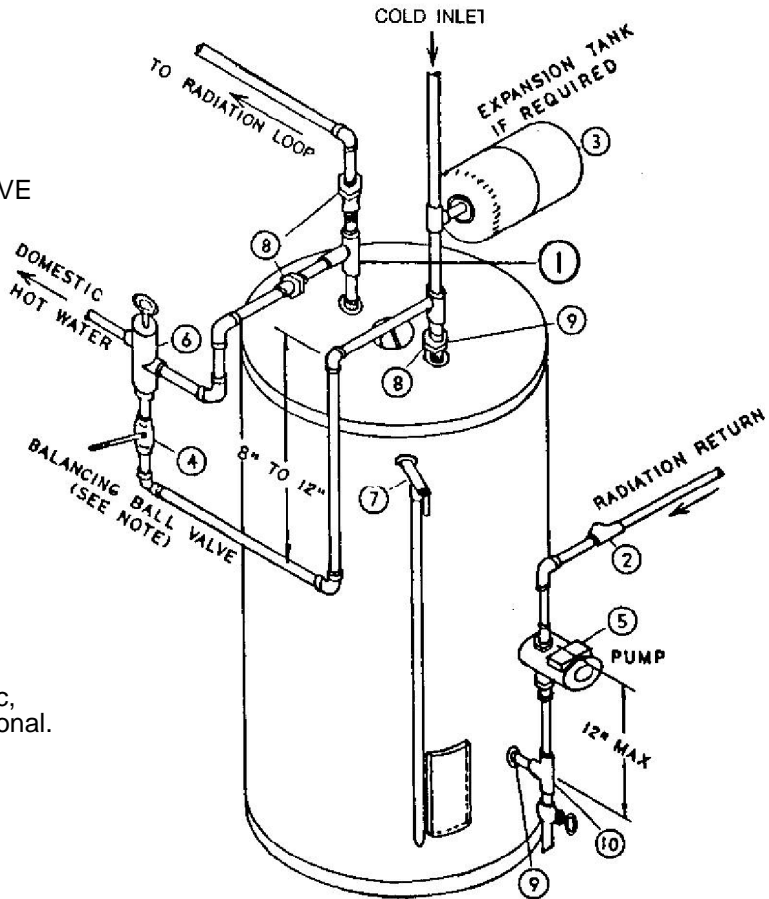
RECOMMENDED PLUMBING CIRCUIT SCHEMATIC (SEE NOTE)

DOMESTIC HOT WATER PLUMBING CIRCUIT MATERIAL LIST

PART NO.	QTY.	DESCRIPTION
1	1	D.H.W. SPLITTER BY TURBONICS, INC.
2	1	3/4" SWEAT SWING OR SPRING CHECK VALVE
3	1	POTABLE WATER EXPANSION TANK MODEL #ST 12 OR 25, OR EQUIVALENT, PROPERLY SIZED & RATED FOR 125 PSIG. NOTE: Required where cold inlet line contains any type of back flow prevention device.
4	1	3/4" SWEAT FULL FLOW BALL VALVE NOTE: Ball valve to compensate for pressure drop through hot supply circuit.
5*	1	STAINLESS STEEL OR BRONZE PUMP WITH CONNECTIONS FOR 3/4" PIPE
6	1	3/4" SWEAT ANTI SCALD MIXING VALVE (100°F TO 140°F RANGE)
7	1	T & P RELIEF VALVE
8	3	3/4" SWEAT COPPER UNIONS.
9	2	PLASTISERT NIPPLE
10	1	3/4" BRASS SCREW TEE.

*Pump may not be needed if utilizing a Chill Chaser II or any heating unit that already has a pump built-in.

NOTE: While this is a recommended Plumbing Circuit Schematic, local codes may vary design. Consult a design professional.



1. The DHW SPLITTER is needed to prevent air-binding of the pump in the event air or other gas collects at the top of the water heater vessel.
2. The unions are necessary to expedite water heater replacement or service, minimizing disassembly of the plumbing circuit at that time.
3. The purpose of the check valve is to inhibit thermo-syphoning when the pump is off. If radiation is located above the water heater, a trap will also be needed in the radiation supply line if using a swing check.
4. The expansion tank is required only when some means of backflow prevention, such as a regulator or back-flow preventer, is present in the city water supply line and where required by local code. This requirement applies to any potable hot water circuit.
5. The valve in the cold supply to the mixing valve is needed to compensate for the restriction present in the hot supply line.
6. Per many State and Local plumbing codes, an anti-scald mixing valve is needed any time water heater temperature controls are set above 120°F. This will be the case for most COMBO HEATING & HOT WATER installations. The DHW SPLITTER is needed not only to prevent air-binding of the pump, but also to ensure even water flow to fixtures when the circulator is cycled on and off during normal operation.

STANDARD LIMITED PRODUCT WARRANTY

Turbonics, Inc. warrants to the original user each new product manufactured by it or sold under its trade names to be free from defects in workmanship and material under normal use and service for a period of five years from date of shipment from the factory warehouse excluding the pump on the Chill Chaser whose warranty is one year. The sole liability of Turbonics, Inc. under this warranty is limited to repairing, or at its option, replacing free of cost, any defective part or parts f.o.b. its factory, provided that (1) the defective part is returned prepaid to Turbonics, Inc. upon its written authorization, and (2) Turbonics, Inc. determines the defective part has not been subjected to misuse, abuse, negligence, accident, or improper installation, operation, service or repair. This warranty does not include any field labor charge involved in removal of the defective part or installation of the repaired or replacement part. During the first year, with prior factory approval, a labor charge of \$15.00 per hour may be applied for on warranty repairs. This warranty is made only to the original user of the product and cannot be transferred or assigned, and it is effective only while the product is in use at the place of original installation. Such warranty shall not apply to any product on which the serial number or date of manufacture has been altered, effaced or removed. This warranty applies only to products installed within the continental boundaries of North America. This warranty constitutes the only warranty, or representation of Turbonics, Inc. and no other warranty, or representation, statutory or otherwise, is expressed or may be implied. In no event will Turbonics, Inc. be responsible for special or consequential damages of any kind whatsoever.