



Part Number	Description
-------------	-------------

SOLAR MODULES-NEAR BOILER PIPING

Solar Panel Without Heat Exchanger

PHP-SP750G	3/4" Solar Panel W/grundfos UPS15-58FC
PHP-SP750T	3/4" Solar Panel W/taco 00R-MSF1-IFC
PHP-SP750LP	3/4" Solar Panel Less Pump

Solar Panel with Heat Exchanger

PHP-SPHE750G	3/4" Solar Panel W/grundfos UPS15-58FC, UPS15-35SFC and Heat Exchanger
PHP-SPHE750GC	3/4" Solar Panel W/two grundfos UPS15-58FC and Heat Exchanger
PHP-SPHE750T	3/4" Solar Panel W/taco 00R-MSF1-IFC, 008-BC6-IFC and Heat Exchanger
PHP-SPHE750TC	3/4" Solar Panel W/two taco 00R-MSF1-IFC and Heat Exchanger
PHP-SPHE750LP	3/4" Solar Panel W/no Pumps, But Does Have a Heat Exchanger
PHP-VAE750	3/4" Vertical Air Eliminator

PRIMARY MODULES - NEAR BOILER PIPING

M1 - Cabinet Mounted Panels

Heat Exchanger Models

PHPHX-75T	Single-wall HX with Taco pumps, up to 50,000 Btuh
PHPHX-75DWT	Double-wall HX with Taco pumps, up to 50,000 Btuh
PHPHX-100T	Single-wall HX with Taco pumps, up to 80,000 Btuh
PHPHX-100DWT	Double-wall HX with Taco pumps, up to 80,000 Btuh
PHPHX-125T	Single-wall HX with Taco pumps, up to 200,000 Btuh
PHPHX-125DWT	Double-wall HX with Taco pumps, up to 200,000 Btuh

Primary Panel Without Indirect Water Heater Pump

(where approved for use as a heating appliance)

PHPHO-100T	Boiler module with Taco system pump and without indirect pump, up to 80,000 Btuh
PHPHO-100AT	Boiler module with Taco system pump, without bypass, and without indirect pump, up to 80,000 Btuh
PHPHO-125T	Boiler module with Taco system pump and without indirect pump, up to 200,000 Btuh
PHPHO-125AT	Boiler module with Taco system pump, without bypass, and without indirect pump, up to 200,000 Btuh
PHPHO-200T	Boiler module with Taco 0012-F4-1 system pump, without flow setter and without indirect pump, up to 500,000 Btuh

Primary Panel with Indirect Water Heater Pump

PHPHI-100T	Boiler module with Taco system and indirect pumps, up to 80,000 Btuh
PHPHI-100AT	Boiler module with Taco system and indirect pumps, without bypass, up to 80,000 Btuh
PHPHI-125T	Boiler module with Taco system and indirect pumps, up to 200,000 Btuh
PHPHI-125AT	Boiler module with Taco system and indirect pumps, without bypass, up to 200,000 Btuh

Primary Panel with Indirect Water Heater Pump

PHPHI-200T	Boiler module with Taco 0012-F4-1 system and indirect pumps, without flow setter, up to 500,00 Btuh
------------	---

PRIMARY MODULES - NEAR BOILER PIPING

Pro-Modular Strut-Mounted Panels

Strut-Mounted Primary Panel without Indirect Water Heater Pump

PHP-TK-1000T	Boiler module with Taco system pump and without indirect pump, up to 80,000 Btuh
--------------	--

Strut-Mounted Primary Panel with Indirect Water Heater Pump

PHP-TK-1250T	Boiler module with Taco system pump and without indirect pump, up to 200,000 Btuh
PHP-TK-2000T	Boiler module with Taco system pump and without indirect pump, up to 500,000 Btuh



Part Number	Description
Strut-Mounted Primary Panel with Indirect Water Heater Pump	
PHP-TKI-1000T	Boiler module with Taco system pump and with indirect pump, up to 80,000 Btuh
PHP-TKI-1250T	Boiler module with Taco system pump and with indirect pump, up to 200,000 Btuh
PHP-TKI-2000T	Boiler module with Taco system pump and with indirect pump, up to 500,000 Btuh

PRIMARY-MODULE ACCESSORIES

Differential Pressure Bypass Kit for use with M1 and Pro-Modular Primary Panels

PHP-DPV750-KIT	3/4" differential pressure bypass kit for primary modules up to 200,000 Btuh
PHP-DPV1250-KIT	1-1/4" differential pressure bypass kit for primary modules up to 500,000 Btuh

SECONDARY-LOOP COMPONENTS FOR M1 AND PRO-MODULAR PANELS

Secondary zone modules are multi-zone modules that may be combined in various configurations

1-1/4" Secondary-Loop Components (Slip-Fit Connections)

Zone Pump Modules (Slip-Fit Connections)

PHP-PMPCM-1T	1 zone pumping component module with Taco pump
PHP-PMPCM-2T	2 zone pumping component module with Taco pump
PHP-PMPCM-3T	3 zone pumping component module with Taco pump
PHP-PMPCM-4T	4 zone pumping component module with Taco pump
PHP-PMPCM-5T	5 zone pumping component module with Taco pump

Zone Valve Modules (Slip-Fit Connections)

PHP-PMZVCM-1	1 zone valve component module
PHP-PMZVCM-2	2 zone valve component module
PHP-PMZVCM-3	3 zone valve component module
PHP-PMZVCM-4	4 zone valve component module

Zone Valve Modules (Slip-Fit Connections)

PHP-PMZVCM-5	5 zone valve component module
--------------	-------------------------------

3-Way Manual Mixing Modules (Slip-Fit Connections)

PHP-PM3WCAMV-1T	1 zone manual mix module with Taco pump
PHP-PM3WCAMV-2T	2 zone manual mix module with Taco pump
PHP-PM3WCAMV-3T	3 zone manual mix module with Taco pump

3-Way Taco i-Valve Mixing Modules (Slip-Fit Connections)

PHP-PM3WiMV-1T	1 zone 3-way i-Valve mix module with Taco pump
PHP-PM3WiMV-2T	2 zone 3-way i-Valve mix module with Taco pump
PHP-PM3WiMV-3T	3 zone 3-way i-Valve mix module with Taco pump

2-Way Taco i-Valve Mixing Modules (Slip-Fit Connections)

PHP-PM2WiMV-1T	1 zone 2-way i-Valve mix module with Taco pump
PHP-PM2WiMV-2T	2 zone 2-way i-Valve mix module with Taco pump
PHP-PM2WiMV-3T	3 zone 2-way i-Valve mix module with Taco pump

SECONDARY-LOOP COMPONENTS FOR M1 AND PRO-MODULAR PANELS

Secondary zone modules are multi-zone modules that may be combined in various configurations

1-1/4" Secondary-Loop Components (Sweat Connections)

PHP-PMPCM-1TSW	1 zone pumping component module with Taco pump
PHP-PMPCM-2TSW	2 zone pumping component module with Taco pump
PHP-PMPCM-3TSW	3 zone pumping component module with Taco pump
PHP-PMPCM-4TSW	4 zone pumping component module with Taco pump
PHP-PMPCM-5TSW	5 zone pumping component module with Taco pump

Zone Valve Modules (Sweat Connections)

PHP-PMZVCM-1SW	1 zone valve component module
PHP-PMZVCM-2SW	2 zone valve component module
PHP-PMZVCM-3SW	3 zone valve component module
PHP-PMZVCM-4SW	4 zone valve component module
PHP-PMZVCM-5SW	5 zone valve component module

3 Way Manual Mixing Modules (Sweat Connections)

PHP-PM3WCAMV-1TSW	1 zone manual mix module with Taco pump
-------------------	---



Part Number	Description
3 Way Manual Mixing Modules (Sweat Connections)	
PHP-PM3WCAMV-2TSW	2 zone manual mix module with Taco pump
PHP-PM3WCAMV-3TSW	3 zone manual mix module with Taco pump
3-Way Taco i-Valve Mixing Modules (Sweat Connections)	
PHP-PM3WiMV-1TSW	1 zone 3-way i-Valve mix module with Taco pump
PHP-PM3WiMV-2TSW	2 zone 3-way i-Valve mix module with Taco pump
PHP-PM3WiMV-3TSW	3 zone 3-way i-Valve mix module with Taco pump
2-Way Taco i-Valve Mixing Modules (Sweat Connections)	
PHP-PM2WiMV-1TSW	1 zone 2-way i-Valve mix module with Taco pump
PHP-PM2WiMV-2TSW	2 zone 2-way i-Valve mix module with Taco pump
2-Way Taco i-Valve Mixing Modules (Sweat Connections)	
PHP-PM2WiMV-3TSW	3 zone 2-way i-Valve mix module with Taco pump

SECONDARY-LOOP COMPONENTS FOR M1 AND PRO-MODULAR PANELS

Secondary zone modules are multi-zone modules that may be combined in various configurations

2" Secondary-Loop Components (Sweat Connections)

Zone Pump Modules (Sweat Connections)

PHP-PMPCM-1T-2000SW	1 zone pumping component module with Taco pump (2")
PHP-PMPCM-2T-2000SW	2 zone pumping component module with Taco pump (2")
PHP-PMPCM-3T-2000SW	3 zone pumping component module with Taco pump (2")
PHP-PMPCM-4T-2000SW	4 zone pumping component module with Taco pump (2")
PHP-PMPCM-5T-2000SW	5 zone pumping component module with Taco pump (2")

SECONDARY-LOOP COMPONENTS FOR M1 AND PRO-MODULAR PANELS

Secondary zone modules are multi-zone modules that may be combined in various configurations

2" Secondary-Loop Components (Sweat Connections)

Zone Pump Modules (Sweat Connections)

PHP-PMPCM-5G-2000SW	5 zone pumping component module with Grundfos pump (2")
---------------------	---

Zone Valve Modules (Sweat Connections)

PHP-PMZVCM-1-2000SW	1 zone valve component module (2")
PHP-PMZVCM-2-2000SW	2 zone valve component module (2")
PHP-PMZVCM-3-2000SW	3 zone valve component module (2")
PHP-PMZVCM-4-2000SW	4 zone valve component module (2")
PHP-PMZVCM-5-2000SW	5 zone valve component module (2")

3-Way Manual Mixing Modules (Sweat Connections)

PHP-PM3WCAMV-1T-2000SW	1 zone manual mix module with Taco pump (2")
PHP-PM3WCAMV-2T-2000SW	2 zone manual mix module with Taco pump (2")
PHP-PM3WCAMV-3T-2000SW	3 zone manual mix module with Taco pump (2")

3-Way Taco i-Valve Mixing Modules (Sweat Connections)

PHP-PM3WiMV-1T-2000SW	1 zone 3-way i-Valve mix module with Taco pump (2")
-----------------------	---

3-Way Taco i-Valve Mixing Modules (Sweat Connections)

PHP-PM3WiMV-2T-2000SW	2 zone 3-way i-Valve mix module with Taco pump (2")
PHP-PM3WiMV-3T-2000SW	3 zone 3-way i-Valve mix module with Taco pump (2")

2-Way Taco i-Valve Mixing Modules (Sweat Connections)

PHP-PM2WiMV-1T-2000SW	1 zone 2-way i-Valve mix module with Taco pump (2")
-----------------------	---

2-Way Taco i-Valve Mixing Modules (Sweat Connections)

PHP-PM2WiMV-2T-2000SW	2 zone 2-way i-Valve mix module with Taco pump (2")
PHP-PM2WiMV-3T-2000SW	3 zone 2-way i-Valve mix module with Taco pump (2")

SECONDARY PARTS AND ACCESSORIES (FOR 1", 1 1/4" AND 2" PARTS CONNECT WITH SWEAT)

Secondary Parts and Accessories Sweat Connections

PHP-PMCMTA1-1000SW	1" primary/secondary transition kit (includes: transition fittings, transition adapter, end caps with drains)
--------------------	---



Part Number	Description
PHP-PMCMTA1-1250SW	1-1/4" primary/secondary transition kit (includes: transition fittings, transition adapter, end caps with drains)
PHP-PMCMTA1-2000SW	2" primary/secondary transition kit (includes: transition fittings, transition adapter, end caps with drains)
PHP-PMSADPTKIT-1000SW	1" short adapter kit
PHP-PMSADPTKIT-1250SW	1-1/4" short adapter kit
PHP-PMSADPTKIT-2000SW	2" short adapter kit
PHP-PMJBENDSW	"J"-bend kit, 1 short bend, 1 long bend (1")
PHP-PMSJBENDSW	"J"-bend kit, 2 short bends (1")
PHP-PMLJBENDSW	"J"-bend kit, 2 long bends (1")
PHP-PMJBEND-2000SW	"J"-bend kit, 1 short bend, 1 long bend (2")

Secondary Parts and Accessories Sweat Connections

PHP-PMSJBEND-2000SW	"J"-bend kit, 2 short bends (2")
PHP-PMLJBEND-2000SW	"J"-bend kit, 2 long bends (2")
PHP-PM1250PEKSW	End piece replacement kit (1-1/4")
PHP-PM2000PEKSW	End piece replacement kit (2")

OTHER ACCESSORIES

PHP-1000DB	1" pump spacer blank
PHP-1250DB	1-1/4" pump spacer blank
PHP-2000DB-T	2" pump spacer blank - Taco

BOILERPAKS

Boilerpak Primary-Loop Starter Modules

Knight Boiler Stand

Starter Kit For Specific Knight Model (Required For Use With Starter Module)

PHP-KN80KIT	Starter kit for Knight 80
PHP-KN105KIT	Starter kit for Knight 105
PHP-KN150KIT	Starter kit for Knight 150
PHP-KN210KIT	Starter kit for Knight 210

Starter Module For Use With Zone Pumps (For All Knight Models): Includes Drain Valve Set

PHP-KN1250SPM	Starter module (system pump supplied with boiler)
---------------	---

Starter Module For Use With Zone Valves, Including Secondary Pump (For Specific Knight Models):

Includes DPBV And Drain Valve Set

PHP-KN1250SSVMT-80-105	Starter module with secondary Taco pump for Knight 80 and 105 models (system pump supplied with boiler)
PHP-KN1250SSVMT-150-210	Starter module with secondary Taco pump for Knight 150 and 210 models (system pump supplied with boiler)

Indirect Kit (for all Knight models)

PHP-MPP1250IWT	Indirect water tank pumping kit with Taco pump
----------------	--

MUNCHPAK/PINNAPAK Starter Module For Use With Zone Pumps (Specific For The Munchkin/Pinnacle models):

Includes Drain Valve Set

PHP-MPP1250SMP-80T	Starter module for Munchkin/Pinnacle 80 with Taco pump
PHP-MPP1250SMP-140-199T	Starter module for Munchkin/Pinnacle 140 and 199 with Taco pump
PHP-MPP1250SMV-80T	Starter module for Munchkin/Pinnacle 80 with Taco pump
PHP-MPP1250SMV-140-199T	Starter module for Munchkin/Pinnacle 140 and 199 with Taco pump

Indirect Kit (for the Munchkin/Pinnacle, all models)

PHP-MPP1250IWT	Indirect water tank pumping kit with Taco pump
----------------	--

BOILERPAKS

Boilerpak Primary-Loop Starter Modules

PRESTOPAK Starter Module For Prestige 110 For Use With Zone Pumps: Includes Drain Valve Set

PHP-PRP1250SPM-110	Starter module (system pump supplied w/boiler)
--------------------	--

Starter Module For Prestige 110 For Use With Zone Valves: Includes DPBV and Drain Valve Set



Part Number	Description
PHP-PRP1250SZMT	Starter module with secondary Taco pump for Prestige 110 (system pump supplied with boiler)
Indirect Kit (Specific For The Prestige 110)	
PHP-PRP1250IWT	Indirect water tank pumping kit with Taco pump
TRINAPAK Starter Module For Trinity Ti100 and Ti150 For Use With Zone Pumps: Includes Drain Valve Set	
PHP-TRP1250SPM-100-150T	Starter module for Trinity Ti100 and Ti150 w/Taco pump
Starter Module For Trinity Ti100 and Ti150 For Use With Zone Valves: Includes CPBV and Drain Valve Set	
PHP-TRP1250SZMT	Starter module with secondary Taco pump for Trinity Ti100 and Ti150
Indirect Kit (For Trinity Ti100 and Ti150) Includes Drain Valve Set	
PHP-TRP1250IWT	Indirect water tank pumping kit w/Taco pump
ULTRAPAK Starter Module For Ultra 80, 105, 155 Models For Use With Zone Pumps Includes DPBV and Drain Valve Set	
PHP-UL1250SPM	Starter module (system pump supplied with boiler)
Starter Module For Ultra 230 models For Use With Zone pumps: Includes Drain Valve Set	
PHP-UL1250SPM-230	Starter module (system pump supplied with boiler)
Starter Module For Ultra 80, 105, 155 Models For Use With Zone Valves: Includes DPBV Drain Valve Set	
PHP-UL1250SZMT	Starter module with secondary Taco pump for Ultra boilers (system pump supplied with boiler)
Starter Module For Ultra 230 Models For Use With Zone Valves: Includes CPBV Drain Valve Set	
PHP-UL1250SZMT-230	Starter module with secondary Taco pump for Ultra boilers (system pump supplied with boiler)
Indirect Kit (For Ultra 80, 105, 155, 230 Models)	
PHP-MP1250IWT	Indirect water tank pumping kit with Taco pump

BoilerPak Secondary-Loop Zoning Modules (common to all Boilerpaks)

Secondary Zoning Modules For Use With Zone Pumps

PHP-BP1250PM1T	Boilerpak zoning module, 1-zone with Taco pump
PHP-BP1250PM2T	Boilerpak zoning module, 2-zone with Taco pump
PHP-BP1250PM3T	Boilerpak zoning module, 3-zone with Taco pump
PHP-BP1250PM4T	Boilerpak zoning module, 4-zone with Taco pump
PHP-BP1250PM5T	Boilerpak zoning module, 5-zone with Taco pump

Secondary Zoning Modules For Use With Zone Valves

PHP-BP1250ZVM1	Boilerpak zoning module, 1-zone with zone valve
PHP-BP1250ZVM2	Boilerpak zoning module, 2-zone with zone valve
PHP-BP1250ZVM3	Boilerpak zoning module, 3-zone with zone valve
PHP-BP1250ZVM4	Boilerpak zoning module, 4-zone with zone valve
PHP-BP1250ZVM5	Boilerpak zoning module, 5-zone with zone valve

3-Way Manual Mixing Valve Modules (Common To All Boilerpaks):

PHP-BP12503WMV-1T	Boilerpak mixing module 3-way manual mix with Taco pump, 1-zone
PHP-BP12503WMV-2T	Boilerpak mixing module 3-way manual mix with Taco pump, 2-zone
PHP-BP12503WMV-3T	Boilerpak mixing module 3-way manual mix with Taco pump, 3-zone
PHP-BP12503WMV-1G	Boilerpak mixing module 3-way manual mix with Taco pump, 1-zone
PHP-BP12503WMV-2G	Boilerpak mixing module 3-way manual mix with Taco pump, 2-zone
PHP-BP12503WMV-3G	Boilerpak mixing module 3-way manual mix with Taco pump, 3-zone

3-Way Taco iValve Mixing Modules (Common To All Boilerpaks):

PHP-BP12503WiMV-1T	Boilerpak mixing module 3-way Taco iValve with Taco pump, 1-zone
PHP-BP12503WiMV-2T	Boilerpak mixing module 3-way Taco iValve with Taco pump, 2-zone
PHP-BP12503WiMV-3T	Boilerpak mixing module 3-way Taco iValve with Taco pump, 3-zone

2-Way Taco iValve Mixing Modules (Common To All Boilerpaks):

PHP-BP12502WiMV-1T	Boilerpak mixing module 2-way Taco iValve with Taco pump, 1-zone
PHP-BP12502WiMV-2T	Boilerpak mixing module 2-way Taco iValve with Taco pump, 2-zone
PHP-BP12502WiMV-3T	Boilerpak mixing module 2-way Taco iValve with Taco pump, 3-zone



Part Number	Description
-------------	-------------

HYDRAULIC SEPARATORS/CANISTERS (all products U.S. patent pending)

MINI-SEP™ MINI-SEP™-Includes air vent, fast-fill pressure reducing valve

PHP-MSEP-1000	1" Mini-Sep
PHP-MSEP-1250	1 1/4" Mini-Sep
MINI-SEP PLUS™	MINI-SEP PLUS™-Includes air vent, fast-fill pressure reducing valve, expansion tank, mounting bracket
PHP-MSEPPLUS-1000	1" Mini-Sep Plus
PHP-MSEPPLUS-1250	1 1/4" Mini-Sep Plus

MINI-SEP™ KITS- FOR CONNECTING TO PRO-MODULAR™ SECONDARY MODULES

PHP-MSEP-1250SW KIT	Sweat fittings for connecting to Pro-Modular™ Secondary System
---------------------	--

LOW-LOSS HEADER™- Includes air vent, fast-fill pressure-reducing valve, drain, pressure/temperature gauge, Taco pri reversible primary port caps, indirect water tank taps, mounting bracket for in-line pun

PHP-LLH-2T	2-port low-loss-Header™ Taco
PHP-LLH-4T	4-port low-loss-Header™ Taco
PHP-LLH-6T	6-port low-loss-Header™ Taco

primary pump, expansion tank, Grundfos end suction flange

PHP-LLHPLUS-2T	2-Port Low Loss Header Plus™, Taco
PHP-LLHPLUS-4T	4-Port Low Loss Header Plus™, Taco
PHP-LLHPLUS-6T	6-Port Low Loss Header Plus™, Taco
PHP-DHW-T	Indirect DHW Kit, Taco

SEP-CAN™

PHP-SEPC-2	2-Port Sep-Can™
PHP-SEPC-4	4-Port Sep-Can™
PHP-SEPC-6	6-Port Sep-Can™

tank, Grundfos end-suction flange

PHP-ALLCAN-2T	2-Port Allcan™, Taco
PHP-ALLCAN-4T	4-Port Allcan™, Taco
PHP-ALLCAN-6T	6-Port Allcan™, Taco
PHP-DHW-T	Indirect DHW Kit, Taco
PHP-CANMIX-3WiV	3-Way Taco i-Valve Mix Module

Mini-HYDRO™ Kit- Secondary Zoning With Valves

PHP-AVA1250	Air vent. Used when headers are installed upwards (2 required)
PHP-PMDPV750SW KIT	Differential pressure bypass valve kit for the use with conventional secondary pump. Not needed with delta-T or delta-P pumps.
PHP-PMZVCM-1SW	1 zone valve component module
PHP-PMZVCM-2SW	2 zone valve component module

Mini-HYDRO™ Kit- Secondary Zoning With Valves

PHP-PMZVCM-3SW	3 zone valve component module
PHP-MSEP-1250SW KIT TACO	purge valve, Taco 00R-MSF1-IFC
PHP-MSEP-1250SW KIT TDT	zone valve starter/purge kit with Taco T.
PHP-PMJBENDSW	"J"-bend kit, 1 short bend, 1 long bend. Used when installing zone modules up or down.
PHP-MSEPPLUS-1250	1 1/4" Mini-Sep Plus
PHP-MSEP-BCG	Primary loop kit. Includes taps for indirect water tank connection
PHP-MSEP-BCT	Grundfos UPS15-58FC or Taco 00R-MSF1-IFC pump.
PHP-MSEP-BCLP	Primary loop kit without pump
PHP-SWC-1250-18	1 1/4" stainless steel flex connector with sweat adapters 18 inches long.
PHP-SWC-1250-24	1 1/4" stainless steel flex connector with sweat adapters 24 inches long.

Mini-HYDRO™ Kit- Secondary Zoning With Pumps

PHP-AVA1250	Air vent. Used when headers are installed upwards (2 required)
PHP-PMPCM-1TSW	1 zone pump component module-Taco



Part Number	Description
PHP-PMPCM-2TSW	2 zone pump component module-Taco
PHP-PMPCM-3TSW	3 zone pump component module - Taco
PHP-PMPCM-1LPSW	1 zone pump component module without pump
PHP-PMPCM-2LPSW	2 zone pump component module without pump
PHP-PMPCM-3LPSW	3 zone pump component module without pump
PHP-MSEP-1250SWKIT	Pump Module Adapter Kit. Includes end caps with plugs, shut-off with purge valve
PHP-PMJBENDSW	"J"-bend kit, 1 short bend, 1 long bend. Used when installing zone modules up or down.
PHP-MSEPPLUS-1250	1-1/4" Mini-Sep Plus

Mini-HYDRO™ Kit- Secondary Zoning With Pumps

PHP-MSEP-BCT	UPS15-58FC or Taco 00R-MSF1-IFC pump.
PHP-MSEP-BCLP	Primary Loop Kit without pump.
PHP-SWC-1250-18	1-1/4" stainless steel flex connector with sweat adapters -18 inches long.
PHP-SWC-1250-24	1-1/4" stainless steel flex connector with sweat adapters -24 inches long.

HEATING MANIFOLDS AND ACCESSORIES

1" Copper Manifolds W/Sweat Branch (2 1/2" Oc)

PHP-10002500	2 Loop 1"x 1/2" Plain Drop
PHP-10003500	3 Loop 1"x 1/2" Plain Drop
PHP-10006500	6 Loop 1"x 1/2" Plain Drop
PHP-100012500	12 Loop 1"x 1/2" Plain Drop

1" Copper Manifolds W/brass Pex Barb (2 1/2" Oc)

PHP-10002500 PB	2 Loop 1"x 1/2" Pex Barb
PHP-10003500 PB	3 Loop 1"x 1/2" Pex Barb

1" Copper Manifolds W/brass Pex Barb (2 1/2" Oc)

PHP-10006500 PB	6 Loop 1"x 1/2" Pex Barb
PHP-100012500 PB	12 Loop 1"x 1/2" Pex Barb

1" Copper Manifolds W/1/2" Ball Valve Pex Barb (2 1/2" Oc)

PHP-10002500 PBBV	2 Loop 1"x 1/2" Ball Valve W/pexbarb
PHP-10003500 PBBV	3 Loop 1"x 1/2" Ball Valve W/pexbarb
PHP-10006500 PBBV	6 Loop 1"x 1/2" Ball Valve W/pexbarb

1" Copper Manifolds W/1/2" Ball Valve Pex Barb (2 1/2" Oc)

PHP-100012500 PBBV	12 Loop 1"x 1/2" Ball Valve W/pexbarb
--------------------	---------------------------------------

1" Copper Manifolds W/1/2" Compex Ball Valve (2 1/2" Oc)

PHP-10002500 CPX3BV	2 Loop 1"x 1/2" Compex Ball Valve
PHP-10003500 CPX3BV	3 Loop 1"x 1/2" Compex Ball Valve
PHP-10004500 CPX3BV	4 Loop 1"x 1/2" Compex Ball Valve
PHP-100012500 CPX3BV	12 Loop 1"x 1/2" Compex Ball Valve

*NOTE: Not all manufactures of Pex Barrier tubing meet the dimensional requirements as set forth in ASTM Standards: F

1 1/4" Copper Manifolds W/3/4" Ball Valve W/pex Barb (4" Oc)

PHP-12502750 PBBV	2 Loop 1 1/4"x 3/4" Ball Valve W/pex Barb
PHP-12503750 PBBV	3 Loop 1 1/4"x 3/4" Ball Valve W/pex Barb
PHP-12504750 PBBV	4 Loop 1 1/4"x 3/4" Ball Valve W/pex Barb

End Piece 1/8" & 3/8" Air Vents

PHP-1000125 EP	1" X 1/8" End Piece
PHP-1000375 EP	1" X 3/8" End Piece
PHP-1250125 EP	1 1/4" X 1/8" End Piece
PHP-1250375 EP	1 1/4" X 3/8" End Piece
PHP-1500125 EP	1 1/2" X 1/8" End Piece
PHP-1500375 EP	1 1/2" X 3/8" End Piece
PHP-1000125-500 EP	1" X 1/8" Ftg X 1/2" Ftg End Piece
PHP-1250125-500 EP	1 1/4" X 1/8" Ftg X 1/2" Ftg End Piece
PHP-1500125-500 EP	1 1/2" X 1/8" Ftg X 1/2" Ftg End Piece



Part Number	Description
PHP-2000125-500 EP	2" X 1/8" Ftg X 1/2" Ftg End Piece
72" Copper Heating Manifolds X 24 Drop (3" Oc)	
PHP-100024500 PBBV	24 Loop 1"x 1/2" Pex Barb W/Ball Valve
PHP-100024500 PB	24 Loop 1"x 1/2" Pex Barb
PHP-100024500	24 Loop 1"x 1/2" Plain Drop
PHP-100024750	24 Loop 1"x 3/4" Plain Drop
PHP-125024500	24 Loop 1 1/4"x 1/2" Plain Drop
PHP-125024750	24 Loop 1 1/4"x 3/4" Plain Drop
PHP-150024750	24 Loop 1 1/2"x 1/2" Plain Drop
72" Copper Heating Manifolds X 24 Drop (3" Oc)	
PHP-200024750	24 Loop 2"x 3/4" Plain Drop
PHP-2000241000	24 Loop 2"x 1" Plain Drop
72" Copper Heating Manifolds X 18 Drop (4" Oc)	
PHP-100018750-4	18 Loop 1"x 3/4" Plain Drop
PHP-125018750-4	18 Loop 1 1/4"x 1/2" Plain Drop
PHP-150018750-4	18 Loop 1 1/2"x 3/4" Plain Drop
PHP-200018750-4	18 Loop 2" x 3/4" Plain Drop
72" Copper Heating Manifolds X 12 Drop (6" Oc)	
PHP-100012750-6	12 Loop 1"x 3/4" Plain Drop
PHP-125012750-6	12 Loop 1 1/4"x 1/2" Plain Drop
PHP-150012750-6	12 Loop 1 1/2"x 3/4" Plain Drop
PHP-200012750-6	12 Loop 2"x 3/4" Plain Drop
1" x 1/2" Pex Barb ftg., Belled & Spun Closed End (2" Ctrs)	
PHP-1003 SBPB	3 Loop 1" x 1/2" Pex Barb ftg., Belled & Spun Clsd End
PHP-1004 SBPB	4 Loop 1" x 1/2" Pex Barb ftg., Belled & Spun Clsd End
PHP-1005 SBPB	5 Loop 1" x 1/2" Pex Barb ftg., Belled & Spun Clsd End
PHP-1006 SBPB	6 Loop 1" x 1/2" Pex Barb ftg., Belled & Spun Clsd End
PHP-1007 SBPB	7 Loop 1" x 1/2" Pex Barb ftg., Belled & Spun Clsd End
PHP-1008 SBPB	8 Loop 1" x 1/2" Pex Barb ftg., Belled & Spun Clsd End
PHP-1009 SBPB	9 Loop 1" x 1/2" Pex Barb ftg., Belled & Spun Clsd End
PHP-10010 SBPB	10 Loop 1" x 1/2" Pex Barb ftg., Belled & Spun Clsd End
PHP-10012 SBPB	12 Loop 1" x 1/2" Pex Barb ftg., Belled & Spun Clsd End
1" x 1/2" Pex Barb Ball Valve, Belled & Spun Closed End (2" Ctrs)	
PHP-1003 SBPBBV	3 Loop 1" x 1/2" Pex Barb Ball Valve, Belled & Spun Clsd End
PHP-1004 SBPBBV	4 Loop 1" x 1/2" Pex Barb Ball Valve, Belled & Spun Clsd End
PHP-1005 SBPBBV	5 Loop 1" x 1/2" Pex Barb Ball Valve, Belled & Spun Clsd End
1" x 1/2" Pex Barb Ball Valve, Belled & Spun Closed End (2" Ctrs)	
PHP-1006 SBPBBV	6 Loop 1" x 1/2" Pex Barb Ball Valve, Belled & Spun Clsd End
PHP-1007 SBPBBV	7 Loop 1" x 1/2" Pex Barb Ball Valve, Belled & Spun Clsd End
PHP-1008 SBPBBV	8 Loop 1" x 1/2" Pex Barb Ball Valve, Belled & Spun Clsd End
PHP-1009 SBPBBV	9 Loop 1" x 1/2" Pex Barb Ball Valve, Belled & Spun Clsd End
PHP-10010 SBPBBV	10 Loop 1" x 1/2" Pex Barb Ball Valve, Belled & Spun Clsd End
PHP-10012 SBPBBV	12 Loop 1" x 1/2" Pex Barb Ball Valve, Belled & Spun Clsd End
1" x 1/2" Pex Barb ftg., Spun Closed and Reduced End w/3/4" Pex Barb ftg. (2" Ctrs)	
PHP-1003 SNPB	3 Loop 1" x 1/2" Pex Barb ftg., Spun Clsd & Reduced End w/3/4" Pex Barb ftg.
PHP-1004 SNPB	4 Loop 1" x 1/2" Pex Barb ftg., Spun Clsd & Reduced End w/3/4" Pex Barb ftg.
PHP-1005 SNPB	5 Loop 1" x 1/2" Pex Barb ftg., Spun Clsd & Reduced End w/3/4" Pex Barb ftg.
PHP-1006 SNPB	6 Loop 1" x 1/2" Pex Barb ftg., Spun Clsd & Reduced End w/3/4" Pex Barb ftg.
PHP-1007 SNPB	7 Loop 1" x 1/2" Pex Barb ftg., Spun Clsd & Reduced End w/3/4" Pex Barb ftg.
PHP-1008 SNPB	8 Loop 1" x 1/2" Pex Barb ftg., Spun Clsd & Reduced End w/3/4" Pex Barb ftg.
PHP-1009 SNPB	9 Loop 1" x 1/2" Pex Barb ftg., Spun Clsd & Reduced End w/3/4" Pex Barb ftg.
1" x 1/2" Pex Barb Ball Valve, Spun Closed and Reduced End w/3/4" Pex Barb ftg. (2" Ctrs)	



Part Number	Description
PHP-10010 SNPB	10 Loop 1" x 1/2" Pex Barb ftg., Spun Clsd & Reduced End w/3/4" Pex Barb ftg.
PHP-10012 SNPB	12 Loop 1" x 1/2" Pex Barb ftg., Spun Clsd & Reduced End w/3/4" Pex Barb ftg.
PHP-1003 SNPBBV	3 Loop 1" x 1/2" Pex Barb Ball Valve, Spun Clsd & Reduced End w/3/4" Pex Barb ftg.
PHP-1004 SNPBBV	4 Loop 1" x 1/2" Pex Barb Ball Valve, Spun Clsd & Reduced End w/3/4" Pex Barb ftg.
PHP-1005 SNPBBV	5 Loop 1" x 1/2" Pex Barb Ball Valve, Spun Clsd & Reduced End w/3/4" Pex Barb ftg.
PHP-1006 SNPBBV	6 Loop 1" x 1/2" Pex Barb Ball Valve, Spun Clsd & Reduced End w/3/4" Pex Barb ftg.
PHP-1007 SNPBBV	7 Loop 1" x 1/2" Pex Barb Ball Valve, Spun Clsd & Reduced End w/3/4" Pex Barb ftg.
PHP-1008 SNPBBV	8 Loop 1" x 1/2" Pex Barb Ball Valve, Spun Clsd & Reduced End w/3/4" Pex Barb ftg.
PHP-1009 SNPBBV	9 Loop 1" x 1/2" Pex Barb Ball Valve, Spun Clsd & Reduced End w/3/4" Pex Barb ftg.
PHP-10010 SNPBBV	10 Loop 1" x 1/2" Pex Barb Ball Valve, Spun Clsd & Reduced End w/3/4" Pex Barb ftg.
PHP-10012 SNPBBV	12 Loop 1" x 1/2" Pex Barb Ball Valve, Spun Clsd & Reduced End w/3/4" Pex Barb ftg.

1" x 1/2" Pex Barb ftg., Ends Reduced w/3/4" Pex Barb ftg. (2" Ctrs)

PHP-1003 N2PB	3 Loop 1" x 1/2" Pex Barb ftg. Ends Reduced w/3/4" Pex Barb ftg.
PHP-1004 N2PB	4 Loop 1" x 1/2" Pex Barb ftg. Ends Reduced w/3/4" Pex Barb ftg.
PHP-1005 N2PB	5 Loop 1" x 1/2" Pex Barb ftg. Ends Reduced w/3/4" Pex Barb ftg.
PHP-1006 N2PB	6 Loop 1" x 1/2" Pex Barb ftg. Ends Reduced w/3/4" Pex Barb ftg.
PHP-1007 N2PB	7 Loop 1" x 1/2" Pex Barb ftg. Ends Reduced w/3/4" Pex Barb ftg.
PHP-1008 N2PB	8 Loop 1" x 1/2" Pex Barb ftg. Ends Reduced w/3/4" Pex Barb ftg.
PHP-1009 N2PB	9 Loop 1" x 1/2" Pex Barb ftg. Ends Reduced w/3/4" Pex Barb ftg.
PHP-10010 N2PB	10 Loop 1" x 1/2" Pex Barb ftg. Ends Reduced w/3/4" Pex Barb ftg.
PHP-10012 N2PB	12 Loop 1" x 1/2" Pex Barb ftg. Ends Reduced w/3/4" Pex Barb ftg.

1" x 1/2" Pex Barb Ball Valve, Ends Reduced w/3/4" Pex Barb ftg. (2" Ctrs)

PHP-1003 N2PBBV	3 Loop 1" x 1/2" Pex Barb Ball Valve, Ends Reduced w/3/4" Pex Barb ftg.
PHP-1004 N2PBBV	4 Loop 1" x 1/2" Pex Barb Ball Valve, Ends Reduced w/3/4" Pex Barb ftg.
PHP-1005 N2PBBV	5 Loop 1" x 1/2" Pex Barb Ball Valve, Ends Reduced w/3/4" Pex Barb ftg.
PHP-1006 N2PBBV	6 Loop 1" x 1/2" Pex Barb Ball Valve, Ends Reduced w/3/4" Pex Barb ftg.
PHP-1007 N2PBBV	7 Loop 1" x 1/2" Pex Barb Ball Valve, Ends Reduced w/3/4" Pex Barb ftg.
PHP-1008 N2PBBV	8 Loop 1" x 1/2" Pex Barb Ball Valve, Ends Reduced w/3/4" Pex Barb ftg.
PHP-1009 N2PBBV	9 Loop 1" x 1/2" Pex Barb Ball Valve, Ends Reduced w/3/4" Pex Barb ftg.
PHP-10010 N2PBBV	10 Loop 1" x 1/2" Pex Barb Ball Valve, Ends Reduced w/3/4" Pex Barb ftg.
PHP-10012 N2PBBV	12 Loop 1" x 1/2" Pex Barb Ball Valve, Ends Reduced w/3/4" Pex Barb ftg.

Multi-lock Heating Manifolds (Made in Austria)

PHPMSK-2200	Manifold Starter Kit
PHPMRM-2001	Return Module W/flow Meter

Multi-lock Heating Manifolds (Made in Austria)

PHPMVM-2000	Supply Module W/valve Insert
PHPMVR-2000	Red Supply Manifold Key
PHPMVB-2000	Blue Return Manifold Key
PHPMWH-2025	Wall Bracket
PHPMLZV	Zone Valve For Multilock Manifold

Multi-lock Manifold Fittings

PHPMF375PEX	Fitting Adaptor For 3/8" Pex
PHPMF500PEX	Fitting Adaptor For 1/2" Pex
PHPMF625PEX	Fitting Adaptor For 5/8" Pex
PHPMF750PEX	Fitting Adaptor For 3/4" Pex

The Multilock™ Manifold adapts to PEX tubing with a "eurostyle" fitting into a 3/4" euroconos fitting socket. They are supplied with a split nut that allows the fitting to be "madeup" and disconnected numerous times without compromising the integrity of the manifold.

Thermo-static Mixing Valves

PHP-TMV500	Sweat 1/2" Thermostatic Valve
------------	-------------------------------



Part Number	Description
PHP-TMV750	Sweat 3/4" Thermostatic Valve
PHP-TMV1000	Sweat 1" Thermostatic Valve

Temperature range 95° V to 140° F. Maximum flow rates for 1/2" valve 13 GPM and 3/4" 15 GPM. Valves are listed by AS

Automatic Hot Water Air Vents

PHP-AVA125	1/8" Automatic Air Vent
PHP-AVA250	1/4" Automatic Air Vent

Manufactured from heavy duty forged brass. Features low profile, compact body with side vent design.

Accessories- (Common to all)

PHP-BP1250EPK	End piece replacement kit
PHP-UBS-1	Universal boiler stand

Effective 03/01/09

LIST PRICE

\$1,704.00
\$1,736.00
\$1,178.00

\$3,444.00
\$2,866.00
\$3,438.00
\$2,856.00
\$2,154.00
\$184.00

QUOTE ONLY
QUOTE ONLY
QUOTE ONLY
QUOTE ONLY
QUOTE ONLY
QUOTE ONLY

QUOTE ONLY
QUOTE ONLY
QUOTE ONLY
QUOTE ONLY
QUOTE ONLY

QUOTE ONLY
QUOTE ONLY
QUOTE ONLY
QUOTE ONLY

QUOTE ONLY

\$3,210.00
\$3,504.00
QUOTE ONLY

Effective 03/01/09

LIST PRICE

\$4,864.00
\$5,020.00
QUOTE ONLY

\$320.00
\$570.00

QUOTE ONLY
QUOTE ONLY
QUOTE ONLY
QUOTE ONLY
QUOTE ONLY

QUOTE ONLY
QUOTE ONLY
QUOTE ONLY
QUOTE ONLY

QUOTE ONLY

QUOTE ONLY
QUOTE ONLY
QUOTE ONLY

QUOTE ONLY
QUOTE ONLY
QUOTE ONLY

QUOTE ONLY
QUOTE ONLY
QUOTE ONLY

\$990.00
\$1,688.00
\$2,428.00
\$3,126.00
\$3,824.00

\$662.00
\$1,188.00
\$1,784.00
\$2,324.00
\$2,864.00

\$1,250.00

Effective 03/01/09

LIST PRICE

\$2,518.00
\$3,768.00

\$2,300.00
\$4,592.00
\$6,884.00

\$2,320.00
\$4,732.00

\$7,094.00

\$1,170.00
\$1,926.00
\$2,840.00
\$3,596.00
\$4,352.00

\$4,190.00

\$1,040.00
\$1,664.00
\$2,450.00
\$3,074.00
\$3,700.00

\$1,598.00
\$2,992.00
\$4,546.00

\$2,710.00

\$5,214.00
\$7,864.00

\$2,648.00

\$5,104.00
\$7,560.00

\$362.00

Effective 03/01/09

LIST PRICE
\$374.00
QUOTE ONLY
\$56.00
\$54.00
\$126.00
\$82.00
\$136.00
QUOTE ONLY

QUOTE ONLY
QUOTE ONLY
\$88.00
QUOTE ONLY

\$60.00
\$64.00
QUOTE ONLY

QUOTE ONLY
QUOTE ONLY
QUOTE ONLY
QUOTE ONLY

QUOTE ONLY

QUOTE ONLY
QUOTE ONLY

QUOTE ONLY

QUOTE ONLY
QUOTE ONLY
QUOTE ONLY
QUOTE ONLY

QUOTE ONLY

Effective 03/01/09

LIST PRICE

QUOTE ONLY

QUOTE ONLY

QUOTE ONLY

QUOTE ONLY

QUOTE ONLY

QUOTE ONLY

QUOTE ONLY

QUOTE ONLY

QUOTE ONLY

QUOTE ONLY

QUOTE ONLY

QUOTE ONLY

QUOTE ONLY

QUOTE ONLY

QUOTE ONLY

QUOTE ONLY

QUOTE ONLY

QUOTE ONLY

QUOTE ONLY

QUOTE ONLY

QUOTE ONLY

QUOTE ONLY

QUOTE ONLY

QUOTE ONLY

QUOTE ONLY

QUOTE ONLY

QUOTE ONLY

QUOTE ONLY

QUOTE ONLY

QUOTE ONLY

QUOTE ONLY

Effective 03/01/09

LIST PRICE

\$716.00
\$860.00
\$966.00
\$1,104.00

\$222.00

mary pump,
nps.

QUOTE ONLY
QUOTE ONLY
QUOTE ONLY

QUOTE ONLY
QUOTE ONLY
QUOTE ONLY
QUOTE ONLY

QUOTE ONLY
QUOTE ONLY
QUOTE ONLY

\$5,002.00
\$6,130.00
\$7,374.00
\$1,242.00
\$1,358.00

\$34.00
\$408.00
\$662.00
\$1,188.00

\$1,784.00
\$818.00
\$1,302.00
\$126.00
\$1,104.00
\$1,358.00
\$1,392.00
\$1,040.00
\$140.00
\$154.00

\$34.00
\$990.00

Effective 03/01/09

LIST PRICE
\$1,688.00
\$2,428.00
\$640.00
\$986.00
\$1,378.00
\$222.00
\$126.00
\$1,104.00

\$1,392.00
\$1,040.00
\$140.00
\$154.00

\$22.00
\$28.00
\$44.00
\$82.00

\$24.00
\$28.00

\$46.00
\$84.00

\$46.00
\$62.00
\$114.00

\$220.00

\$68.00
\$94.00
\$122.00
\$344.00

876 and F877.

\$82.00
\$114.00
\$150.00

\$22.00
\$24.00
\$38.00
\$40.00
\$38.00
\$40.00
\$30.00
\$46.00
\$48.00

Effective 03/01/09

LIST PRICE
\$56.00

\$438.00
\$162.00
\$166.00
\$182.00
\$222.00
\$236.00
\$266.00

\$336.00
\$344.00

\$158.00
\$208.00
\$236.00
\$308.00

\$134.00
\$178.00
\$206.00
\$278.00

\$30.00
\$36.00
\$40.00
\$46.00
\$50.00
\$58.00
\$62.00
\$68.00
\$80.00

\$64.00
\$80.00
\$96.00

\$114.00
\$128.00
\$148.00
\$164.00
\$182.00
\$216.00

\$32.00
\$38.00
\$42.00
\$50.00
\$54.00
\$62.00
\$66.00

Effective 03/01/09

LIST PRICE
\$72.00
\$84.00
\$66.00
\$84.00
\$100.00
\$118.00
\$132.00
\$152.00
\$168.00
\$184.00
\$218.00

\$36.00
\$42.00
\$46.00
\$54.00
\$56.00
\$66.00
\$70.00
\$74.00
\$86.00

\$70.00
\$88.00
\$104.00
\$120.00
\$136.00
\$156.00
\$172.00
\$188.00
\$222.00

QUOTE ONLY
QUOTE ONLY

QUOTE ONLY
QUOTE ONLY
QUOTE ONLY
QUOTE ONLY
QUOTE ONLY

QUOTE ONLY
QUOTE ONLY
QUOTE ONLY
QUOTE ONLY

superior because
superior fitting or pipe.

\$142.00

Effective 03/01/09

LIST PRICE
\$142.00
\$142.00

SE & IAPMO.

\$34.00
\$34.00

\$196.00
\$284.00