UPP® INSTALLATION TOOLS

The UPP® product line features a complete range of tools to ensure safe and efficient installation. At the heart of the electrofusion welding process is the handheld UPP® 230 V EF1 electrofusion welder (cased 110 V electrofusion welder also available). Robust construction, water and dust resistant features and easy-to-read graphic display of the electrofusion process provide installers with a durable, reliable, and simple means of installation. The handheld EF1 electrofusion welder automatically recognizes a fitting when connected with the welding cable and also checks the ambient temperature using a sensor positioned in the housing and adjusts the energy level to balance with the surrounding environment. It then applies the correct amount of energy necessary to achieve a successful weld. One welder can handle every type of UPP® electrofusion welding coupler, fitting, or entry boot and comes complete with welding leads in a lightweight carrying bag (230 V model) or robust case (110 V model). All installation tools are available separately or included in a rugged tool box, which contains every tool necessary for a full UPP® pipework installation.

WELDING UNIT SPECIFICATIONS

	230 V Model	110 V model
Model number	EF1-230 V	EF1-110 V
Operating voltage	230 V AC supply	110 V AC supply
Operating frequency	45 to 65 Hz	
Operating temperature	5 °F to 113 °F	
	Color	Pin Size/Length
Single wall (primary) welding cable	Red	4mm/18'
Double wall (secondary) welding cable	Green	2mm/18'
Jumper welding cable*	Red	4mm/18'
Power supply cable	Black	13'

*Used to weld a series of single wall (primary) fittings.

230 V EF1 HANDHELD ELECTROFUSION WELDER

Model	Description
EF1-230V	230 V EF1 handheld electrofusion welder
EF1-PC 4mm	Spare single wall (primary) welding cable (orange)
EF1-SC 2mm	Spare double wall (secondary) welding cable (green)
EF1-BC 4mm*	Spare jumper welding cable (red)
EF1-PC 2mm-10	10 amp weld lead

*Used to weld a series of single wall (primary) fittings.

110 V EF1 ELECTROFUSION WELDER

Model	Description
EFI-110V-A	110 V EF1 electrofusion welder
EF1-PC 4mm	Spare single wall (primary) welding cable (orange)
EF1-SC 2mm	Spare double wall (secondary) welding cable (green)
EF1-BC 4mm*	Spare jumper welding cable (red)
EF1-PC 2mm-10	10 amp weld lead

*Used to weld a series of single wall (primary) fittings.

PIPE CUTTER

Model	Description
P.CUT	1½" to 5" pipe cutter - medium
P.CUT MED	4" to 6" pipe cutter - large

ADJUSTABLE ROTARY SCRAPER

Model	Description
SCR-025-125	1" to 5" pipe adjustable rotary scraper
SCR-090-225	3" to 9" pipe adjustable rotary scraper
SCR-BLADE-025-225	Spare blades for adjustable rotary scraper
RS-63	63 mm (2" primary or 1.5" secondary) pipe scraper tool
RS-75	75 mm (2" primary) pipe scraper tool

HANDHELD SCRAPER

Model	Description
SCR.HAR	Handheld scraper
SCR.HAR(B)	Spare blades for handheld scraper

WOODEN MALLET

Model	Description
MAL1	Wooden mallet

PIPE CLAMPS

Model	Description
CLAMP (S)	Straight clamp for straight joints (1" to 4" pipe)
CLAMP (A)	Angled clamp for straight and elbow joints (1" to 4" pipe)

ELECTROFUSIOM ENTRY BOOT CLAMPS

Model	Description
302-CLAMP	Clamp for 302 electrofusion entry boot (orange)
303-CLAMP-1	Clamp for 303 electrofusion entry boot (blue)
304-CLAMP	Clamp for 304-110-090 electrofusion entry booth (yellow)

HOLE SAWS

Model	Description
MAN1	Mandrel (fits all hole saws)
HS3	4" hole saw for 303-063 and 303-075 electrofusion entry boots
HS3-58	3-5/8" (92mm) hole saw for FEB-075-M fiberglass entry boot
HS5	5½" hole saw for FEB-D-110-1 fiberglass entry boots
HS6	5-5/16" hole saw for 305 electrofusion entry boots
F.Driver	Driver tool
CW1	Cutting wheel

ANCILLARY ITEMS

Model	Description
LDT60-1	Leak Detection (Nylon) Tube Kit (60 cm)

Franklin Fueling Systems

90 SERIES WRENCHES

Model	Description
91-050-TOOL	PLT Spanner 50A/F 91-050
92-050-TOOL	PLT Spanner 55A/F 92-050
91-063-TOOL	PLT Spanner 62A/F 91-063
92-063-TOOL	PLT Spanner 67A/F 92-063

TOWING HEAD FOR PIPE RETROFIT INSTALLATIONS.

Model	Description
TH50-SDR8	1½" single wall pipe towing head
TH63SC-SDR8	1½" double wall pipe towing head
TH75SC	2" double wall pipe towing head

FIBERGLASS ENTRY BOOT TOOL AND ACCESSORIES

Model	Description
E32-2014-50	Epoxy cartridge (50ml)
E32 GUN	Epoxy cartridge (6 - 50ml tubs)
EMERY	Emery cloth for fiberglass entry booth sump surface preparation (sold in 1' lengths)
FIBERGLASS-KIT	Kit includes matte, resin, putty, catalyst, roller, gloves, stir sticks, squeegee, mixing containers, paint brush

*Two tools required for tightening.

CONSUMABLES KIT

Model	Description
408005901	UPP® consumables include: (1) pound of lint-free rags, (2) markers, (2) one quart spray bottles, (1) box of Nitrile gloves, (2) silver markers, (1) sheet emery cloth, (2) paint scrapers

STEP UP TRANSFORMER

Model	Description
408032001	Step up transformer

UPP® ESSENTIALS TOOL KIT

Model	Description
408033901	UPP® essentials tool kit includes: (1) angled clamp, (1) straight clamp, (4) 303 entry boot clamps, (1) consumables kit, (1) pipe cutter, (1) rotary scraper, (1) EF1-230 V handheld welder, (1) step up transformer