

COMPLETE BMS SOLUTIONS

The PRO Series pre-assembled burner management systems are Profire's next generation of plug and play packaged offerings. Building off the success of the IFTS concept, the PRO Series has been designed to offer a complete engineered solution which provides success, consistency, and installation efficiency.

KEY FEATURES INCLUDE

- Compact, mechanically & electrically preassembled and tested fuel train.
- Supports the PF2100 & PF2200 Controllers
- Mounting Options: Arrestor/Skid/Cabinet
- Fuel Train Options:
 - HBB-T & HBB
 - HCC-T & HCC
 - 401AP-T & 401AP
- Specifically chosen, field proven, components from inlet regulator to burner tip.

PRO 8



PRO QS



INSTRUCTIONS FOR ORDERING:

Follow the steps outlined below to build a Profire PRO Series solution for any heater application. If you have any questions, please contact a Profire sales representative.

1. Select a BMS Controller
2. Select a Fuel Train
3. Select a Mounting Bracket
4. Select an Install Kit
5. Select Additional Items

STEP 1

BMS CONTROLLER

PART #	DESCRIPTION	
SELECT ONE		
PF2200-SB-A	2200 CONTROLLER SINGLE BURNER	
PS21-E0000	2100 CONTROLLER	
PS21-E0R00	2100 CONTROLLER WITH REPEATER CARD	
PS21-E0M00	2100 CONTROLLER WITH MODBUS CARD	

CONTROLLER SELECTED:

STEP 2

FUEL TRAIN SELECTION

PART #

PART #

PRO 8

PRO QS



Pictured: PFK800HBB1-L
Profire Controller Ordered Separately



Pictured: PFK850HBB1-R
Profire Controller Ordered Separately

HBB Left Hand Design

PFK800HBB1-L

PFK800HBB2-L

PFK800HBB3-L

PFK800HBB4-L

24VDC OPERATION - WITH PSI TRANSMITTER

24VDC OPERATION - NO PSI TRANSMITTER

12VDC OPERATION - WITH PSI TRANSMITTER

12VDC OPERATION - NO PSI TRANSMITTER

HBB Right Hand Design

PFK800HBB1-R

PFK800HBB2-R

PFK800HBB3-R

PFK800HBB4-R

24VDC OPERATION - WITH PSI TRANSMITTER

24VDC OPERATION - NO PSI TRANSMITTER

12VDC OPERATION - WITH PSI TRANSMITTER

12VDC OPERATION - NO PSI TRANSMITTER

HCC Left Hand Design

PFK800HCC1-L

PFK800HCC2-L

PFK800HCC3-L

PFK800HCC4-L

24VDC OPERATION - WITH PSI TRANSMITTER

24VDC OPERATION - NO PSI TRANSMITTER

12VDC OPERATION - WITH PSI TRANSMITTER

12VDC OPERATION - NO PSI TRANSMITTER

HCC Right Hand Design

PFK800HCC1-R

PFK800HCC2-R

PFK800HCC3-R

PFK800HCC4-R

24VDC OPERATION - WITH PSI TRANSMITTER

24VDC OPERATION - NO PSI TRANSMITTER

12VDC OPERATION - WITH PSI TRANSMITTER

12VDC OPERATION - NO PSI TRANSMITTER

HBB Left Hand Design

PFK850HBB1-L

PFK850HBB2-L

PFK850HBB3-L

PFK850HBB4-L

HBB Right Hand Design

PFK850HBB1-R

PFK850HBB2-R

PFK850HBB3-R

PFK850HBB4-R

HCC Left Hand Design

PFK850HCC1-L

PFK850HCC2-L

PFK850HCC3-L

PFK850HCC4-L

HCC Right Hand Design

PFK850HCC1-R

PFK850HCC2-R

PFK850HCC3-R

PFK850HCC4-R

FUEL TRAIN SELECTED:

Right Hand fuel trains include the gas inlet on the right side of the assembly while facing the controller.

Left Hand fuel trains include the gas inlet on the left side of the assembly while facing the controller.

STEP 3

MOUNTING OPTIONS

PART #	DESCRIPTION	PART #
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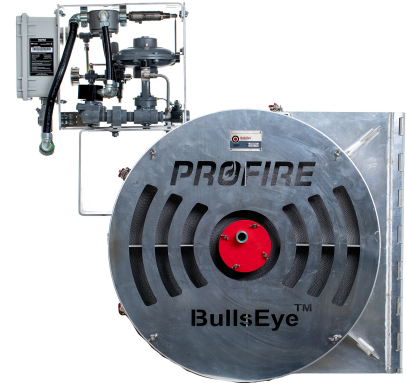
ARRESTOR MOUNT

ITEM #

VTM024FAM
VTM030FAM
VTM036FAM

PRO 8 BASE - 24" ARRESTOR MOUNT
PRO 8 BASE - 30" ARRESTOR MOUNT
PRO 8 BASE - 36" ARRESTOR MOUNT

- The arrestor mount option is only available with the **PRO 8** fuel train.



GROUND/SKID MOUNT

ITEM #

VTM200PGB

PRO 8 GROUND BASE



PRO QS GROUND BASE

ITEM #

VTM200QGB



WALL/CABINET MOUNT

ITEM #

VTM200PWM

PRO 8 WALL MOUNT BASE



PRO QS WALL/CABINET BASE

ITEM #

VTM200QWM



MOUNTING BRACKET SELECTED:

STEP 4

INSTALLATION KIT

PART #	DESCRIPTION
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1 - SELECT AN IGNITION COIL

*This makes up the first 6 characters in the installation kit part number.

PAK805	--	-	STANDARD PROFIRE EXTERNAL COIL
PAK810	--	-	EPX C1D1 COIL



2 - SELECT AN ELECTRODE

*These letters make up the 7th & 8th characters in the installation kit part number.

-----	AA	-	OPTION AA 5' Ignition Wire 6" X 6", 12" OAL Electrode Rod PF 2 Hole Pilot Bracket w/ Bushing 6' Coil Wire Run Pre-Assembly
-----	AB	-	OPTION AB 5' Ignition Wire No Electrode or Pilot Bracket. PF Inline Pilot Ready 6' Coil Wire Run Pre-Assembly



3 - SELECT THERMOCOUPLE OPTION

*This letter makes up the last character in the installation kit part number.

-----	--	A	11.5" TC / TC Wire/Fittings	A
-----	--	B	11.5" & 4" TC / TC Wire/Fittings	B
-----	--	C	4" TC / TC Wire/Fittings	C
-----	--	D	11.5" TC / No TC Wire / TC Fittings	D
-----	--	E	11.5" & 4" TC / No TC Wire / TC Fittings	E
-----	--	F	4" TC TC / No TC Wire/Fittings	F
-----	--	G	No Thermocouple Components	G

				A	B	C	D	E	F	G
Dual Thermocouple Head	1/4" Bore x 11-1/2"	1	1		1	1	1			
	1/4" Bore x 4"		1	1		1	1			
Thermowell	3/4" NPT x 11-1/2"	1	1		1	1	1			
	3/4" NPT x 4"		1	1		1	1			
25' Type K Thermocouple Armored Wire #20 Gauge w/ 2 Pair		1	2	1						
TEC Cable Fitting Kit 1/2" NPT Connectors w/ 3/4" X 1/2" Reducer Bushings		1	2	1	1	2	2			

INSTALLATION KIT SELECTED:

Example Kit Part #:






PAK805 AA D

*Use these three sections to determine your install kit part #

Ignition Coil Option Electrode Option Thermocouple Option(s)

STEP 5

ADDITIONAL ITEMS

PART #	DESCRIPTION	
PFK801AAA	PRO SERIES INLET REGULATOR ASSEMBLY Includes: Fisher 627R 1" NPT Regulator 3/8" orifice 5-20psi range, 1" Ball valve 2000# w/ lockable handle, Y-strainer 3/64" screen 304SS 800#, Ground Union	
	BULLSEYE ARRESTOR Hinged & Clamped See the Arrestor & Housing section of the catalog for details.	
	MAIN BURNER See the Pilots & Burners section for more details.	
	PILOT BURNER See the Pilots & Burners section for more details.	
	PROFIRE PROFESSIONAL INSTALLATION, COMMISSIONING & SERVICE Contact a Profire Sales Representative for details.	

ADDITIONAL ITEMS SELECTED:
