



Burner Setup Supplement for QHT SRU Boilers

Nozzle Selection and Preliminary Burner Settings

See table below for recommended oil nozzle selections and initial burner settings. Follow Burner Manual and Heating Appliance Manual for installation of nozzle if not supplied with boiler/appliance.

The settings in Table 1 are approximate settings for initial adjustment of the burner. Final adjustments **must** be made using proper test equipment by a qualified installer. All burner installation and adjustments **must** adhere to the guidelines in the burner manual and heating appliance manual.

WARNING

Installer/servicer – Except where specifically stated otherwise, this Supplement must be used only by a **qualified service technician**. Follow all guidelines in the Burner Manual and Heating Appliance Manual. Failure to comply with this or other requirements in this manual could result in severe personal injury, death or substantial property damage.

WARNING

Installer must verify correct size nozzle for appliance is installed and confirm it is properly tightened.

Table 1 Burner specifications and preliminary settings for QHT SRU Applications

Unit Model	Input	Nozzle			Pressure (PSI)	Head Setting	Air Setting
		Size	Type	Manufacturer			
SRU-3	1.00	0.85	70B	Delavan	150	2	40%
		0.85	70S	Steinen*			
		0.85	70A	Delavan*			
SRU-3H***	1.15	0.90	70B	Delavan	160	2	45%
SRU-4**	1.25	1.00	70B	Delavan	155	3	45%
		1.00	60S	Steinen*			
SRU-4H***	1.40	1.10	70B	Delavan	160	3	50%
SRU-5	1.50	1.25	60B	Delavan	150	4	50%
		1.25	60S	Steinen*			
SRU-5H***	1.70	1.35	60B	Delavan	175	4	60%
SRU-6**	1.75	1.50	45B	Delavan	150	5	65%
SRU-3-DV	1.00	0.85	70B	Delavan	150	2	40%
		0.85	70S	Steinen*			
		0.85	70A	Delavan			
SRU-4-DV**	1.25	1.00	70B	Delavan*	155	3	45%
		1.00	60S	Steinen*			

* acceptable alternate nozzle

** If burner is being used on appliance model SRU-4, SRU-6, or SRU-4-DV, install appropriate nozzle before firing (see table above, nozzle included from factory)

*** If firing on a "-H" model, nozzle change is required before firing (nozzle not included)

NOTE: Draft requirements – Follow heating appliance manufacturer’s recommendations.

New Carlin Select EZ Burner Quick Setup Information

Burner configuration/ head bar setting

1. Before firing, confirm your nozzle, air band setting and head bar setting is set for the correct appliance (see page 1, Table 1).

To adjust air band

1. Loosen the air band locking screw and move the air band until the pointers line up with the setting indicated in this supplement.
2. Combustion air is now adjusted to the approximate air band setting for the nozzle size indicated. When you check combustion with instruments during startup or servicing, you may have to adjust the air band slightly to achieve the desired combustion readings.
3. Once desired combustion readings are achieved, tighten the air band locking screw to secure air band in place.

To adjust head position (only necessary for install specific variances or change in firing rate)

1. Loosen the locking nut and oil line thumb nut. Rotate the adjusting screw to align the leading edge of the head bar to the required head position indicated in this supplement.
2. Hand tighten (do not use wrench) the oil line thumb nut, then tighten the locking nut.

Air and head position adjusting

