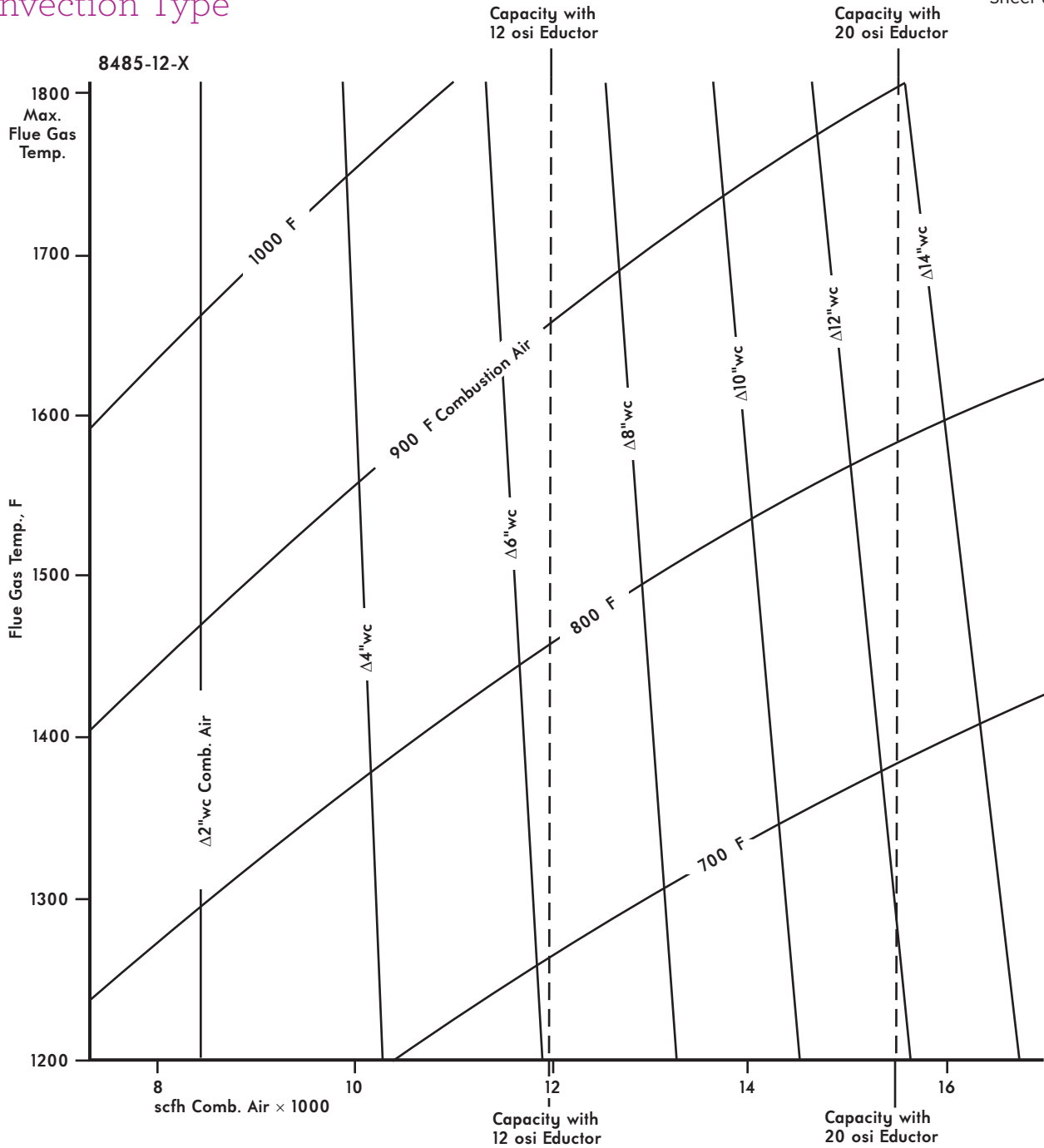


# North American 8485-12 Recuperator Convection Type

Sheet 8485-4



For flue gas temperatures above 1600 F, turndowns greater than 3 to 1 will require introduction of flue gas dilution air upstream of the recuperator for its protection. For flue gas temperatures of 1600 F or less, the dilution air may be required when turndown exceeds 6 to 1, depending on the location of the recuperator.

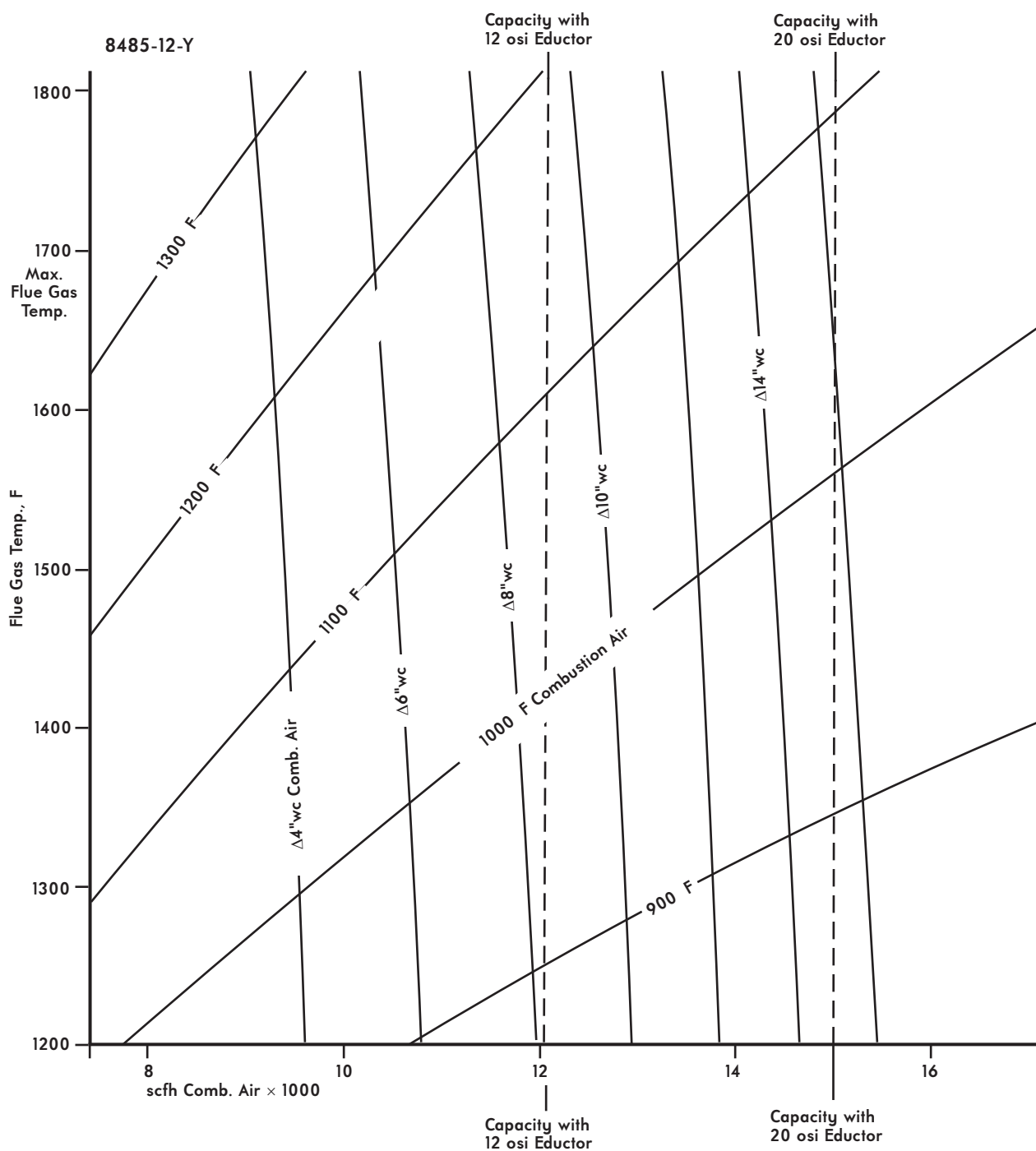
Metric Conversions

1"wc = 25.40 mm H<sub>2</sub>O

1 osi = 43.94 mm H<sub>2</sub>O = 0.004 39 kg/cm<sup>2</sup>

C =  $\frac{5}{9}$  (F - 32)

1 scfh = 0.028 26 sm<sup>3</sup>/h = 0.026 86 m<sup>3</sup>/h



During periods of system turndown, anytime preheat exceeds 1200 F, either flue gas dilution air must be introduced upstream of the recuperator for its protection, or a portion of the preheated air bled off downstream.

**WARNING:** Situations dangerous to personnel and property may exist with the operation and maintenance of any combustion equipment. The presence of fuels, oxidants, hot and cold combustion products, hot surfaces, electrical power in control and ignition circuits, etc., is inherent with any combustion application. Parts of this product may exceed 160F in operation and present a contact hazard. Fives North American Combustion, Inc. urges compliance with National Safety Standards and Insurance Underwriters' recommendations, and care in operation.



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