

Information Bulletin No. IB23-013

March 24, 2023

INTERPRETATION
Power Engineers Regulation Section 29
Boiler Rating

This Information Bulletin replaces IB17-020 which has been withdrawn.

This information bulletin provides interpretations of Section 29 of the *Power Engineers Regulation* (AR 85/2003) regarding the heating surface to determine boiler rating.

Section 29 of the Power Engineers Regulation states:

29(1) If calculations are made with respect to the application of the Act or this Regulation, a boiler rating must be determined on the basis that

- a) one square metre of heating surface equals 10 kW,*
- b) if electric power is used as the heat source, the boiler rating is the maximum kilowatt capacity of the heating element, or*
- c) if neither clause (a) nor (b) is applicable, an hourly boiler output of 36 megajoules is equivalent to 10 kW.*

(2) The heating surface of a boiler must be determined by computing the area of the surface involved in square metres and, if a computation is to be made of a curved surface, the surface having the greater radius must be used.

Interpretations

- i) Section 29 is applicable to power boilers, heating boilers and thermal liquid heaters.
- ii) Heating surface used to calculate the kW capacity in accordance with Subsection 29(1)(a) shall not include the heating surface of:
 - 1. economizers,
 - 2. superheaters, or
 - 3. reheaters.
- iii) Heating surface computed in accordance with in Subsection 29(2) shall include the parts defined in Subsection 1(k) and shall not include extended heating surface such as fins.

<original signed by>

Djordje Srnic, M. Sc., P.Eng.
Administrator, Province of Alberta Pressure Equipment Safety
Chief Inspector, ABSA the pressure equipment safety authority