

Mr. Jas. Kelly,—

We have a pair of feeders on and the temperature in the stack is 690°.

Mr. G. D. Bly,—

Then there certainly is a loss. Have you got a stack damper or stack regulator?

Mr. Jas. Kelly,—

No, we have not.

Mr. G. D. Bly,—

The trouble seems to be, that you are taking too much air into the furnace, and you are heating the air and carrying it away.

Is it a return-tubular boiler?

Mr. Jas. Kelly,—

Yes. We made a test the other day, and found there is usually about six to six and one half pounds evaporation to the pound of coal.

Mr. G. D. Bly,—

An unusual thing occurred when I was having some Murphy Furnaces installed. The Murphy people ran an evaporation test. The most economical point in connection with these Murphy Furnaces, or what the Murphy people claim is their most economical point, is about 500° to 550° F. of flue gas. We ran a test on the hand-fired boiler; in this boiler the stack temperature dropped down to, I think it was, 425°, or perhaps lower. They never could find out the cause of this. A pyrometer was taken off another boiler and tried on this one, but with the same result. We were burning a mixture of hard coal and soft screenings with a forced draft. We thought perhaps an air leak had occurred above the boiler some place, and was cooling it down, but we were unable to find any.

Mr. Jas. Kelly,—

With good coal, and proper conditions, you should be able to evaporate about 8½ to 9 pounds, should you not?