

ABSTRACT OF THE DISCLOSURE

An optimized position for an economizer shut-off valve, or other method of increasing the volume in an economizer line is disclosed. In one embodiment, the economizer shut-off valve is positioned directly downstream of the economizer heat exchanger. In a second embodiment, the valve is positioned upstream of the economizer expansion valve and the economizer heat exchanger. In a third embodiment, the economizer expansion valve is also provided with an appropriate control such that it can be utilized as the shut-off valve. In the fourth embodiment, additional volume is added to the economizer line. With each of these embodiments, the volume of the economizer line between the compressor and the economizer shut-off valve is relatively large compared to the prior art. Benefits with regard to temperature control, efficiency and capacity increase are achieved by this invention. Moreover, a less expensive shut-off valve can be utilized.

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