

Title (en)

OPTIMUM OPERATION OF A HEAT EXCHANGER

Title (de)

OPTIMALER BETRIEB EINES WÄRMETAUSCHERS

Title (fr)

FONCTIONNEMENT OPTIMAL D'UN ÉCHANGEUR DE CHALEUR

Publication

EP 3800411 A1 20210407 (EN)

Application

EP 20199205 A 20200930

Priority

- EP 19200669 A 20191001
- EP 20156890 A 20200212

Abstract (en)

Optimum operation of a heat exchanger. A method of operating a heat exchange assembly (1) having a compressor (2), a first circuit (3; 5) having first (4a; 6a) and second temperature sensors (4b; 6b), a first flow meter (7; 9), a second circuit (5; 3) having a third temperature sensor (6a; 4a), the heat exchange assembly (1) having a power meter selected from a compressor meter (8) or from a second circuit meter comprising the third temperature sensor (6a; 4a), a fourth temperature sensor (6b; 4b), and a second flow meter (9; 7), the method comprising: reading a first temperature signal from a sensor selected from the first temperature sensor (4a; 6a) or the second temperature sensor (4b; 6b), reading a second temperature signal from the third temperature sensor (6a; 4a); determining a first expected coefficient of performance from the first and second temperature signals; starting the compressor (2).

IPC 8 full level

F25B 25/00 (2006.01); **F25B 49/02** (2006.01)

CPC (source: EP)

F25B 25/005 (2013.01); **F25B 49/022** (2013.01); **F25B 2700/13** (2013.01); **F25B 2700/151** (2013.01); **F25B 2700/21** (2013.01)

Citation (search report)

- [A] US 6701725 B2 20040309 - ROSSI TODD M [US], et al
- [A] US 8745999 B2 20140610 - HAMADA MAMORU [JP], et al
- [A] US 9261542 B1 20160216 - WEST MICHAEL KENNETH [US]
- [A] US 8812263 B2 20140819 - TOGANO YOSHIE [JP], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3800410 A1 20210407; EP 3800411 A1 20210407; EP 3800411 B1 20220427

DOCDB simple family (application)

EP 20156890 A 20200212; EP 20199205 A 20200930