When building technology creates perfect places - that's Ingenuity for life.

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The information given in this document only contains general descriptions and/or performance features which may not always be specifically reflect those described, or which may undergo modification in the course of further development of the products. The requested performance features are binding only when they are expressly agreed upon in the concluded contract.

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Heating System Automation

For maximum comfort and energy efficiency

siemens.com/seeteam

Greater thermal comfort, increased energy efficiency and longer life of equipment are the main reasons for installing control systems in heating installations.

According to EN 15232 standard energy savings up to 30% can be achieved if thermostatic valves and room thermostats are installed tion. in each individual room and if a weather-compensated control unit is applied.

AUTOMATION IN HEATING SYSTEMS



Heating System Automation

Thermal comfort is achieved by regulating the temperature, so that there is no overheating or underheating.

higher than the temperature of condensa- ing seasons.

In this brochure you will find Siemens solu- class C.

If the boiler is not designed for operating in tions that bring greater thermal comfort to condensing mode, longer operations with your builing and reduce energy costs at the condensation can cause damage to the equip- same time. The presented systems protect ment. In that case, the return temperature to non condensing boilers from condensation, the boiler has to be controlled so that it is with the payback periods of one to two heat-

All the following solutions are in the energy

BASIC LINE

BL100

BL100	The basic line series (Siemens RWD62 controller) cont- rols one heating circuit.
COMFORT AND SAVINGS	The temperature of the heating water is compensated by the outside temperature. It is possible to adjust the heating water temperature and the impact of the out- side temperature.
OPTIONS	Automatic switch from day to night mode and vice ver- sa via digital seven-day timer

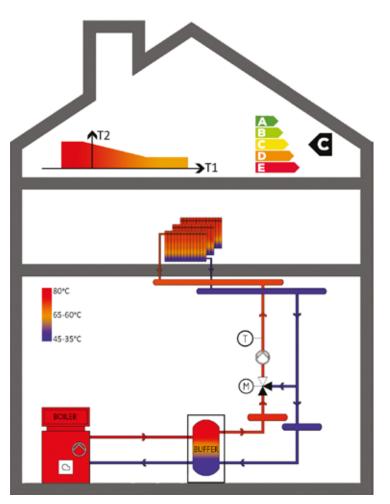
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EQUIPMENT SPECIFICATION

Control cabinet KO-BL100, Siemens controller RWD62, Water temperature sensor QAD2012 or QAE2112, Outside temperature sensor QAC2012, Three-port mixing valve*

Digital seven-day timer SEH62.1

*See table for selecting the valve and actuator, page 10



CL100

COMFO SAVING

OPTION

BASIC E

OPTIONAL EQUIPMENT

OPTIONAL

EQUIPMENT

COMPACT LINE

CL100

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RT AND S	F
IS	F C P S

The Compact Line Series (Siemens Synco200 Controller) controls two heating circuits.

For each circuit independent temperature setting and setting of impact of the outside temperature Switching pumps control

Protect the return temperature to the boiler by reducing the temperature of heating circuits Automatic switch from day to night mode and vice versa via digital seven-day timer

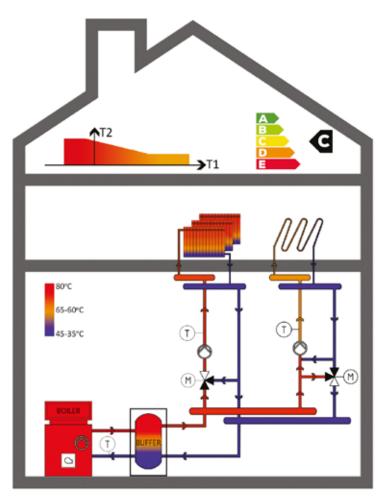


EQUIPMENT SPECIFICATION

Control cabinet KO-CL100; Siemens controller RLU222; Water temperature sensor QAD2012 or QAE2112; Outside temperature sensor QAC2012; Three port mixing valve*

Digital seven-day timer SEH62.1

*See table for selecting the valve and actuator, page 10



COMPACT LINE

CL110

CL110	The Compact Line Series (Siemens Synco200 Control- ler) controls one heating circuit and protects the boiler from the low return temperature.
COMFORT AND SAVINGS	Setting the room temperature in the reference room Protection of the boiler from the low return tempera- ture Switching pumps control
OPTIONS	Automatic switch from day to night mode and vice ver-

sa via digital seven-day timer

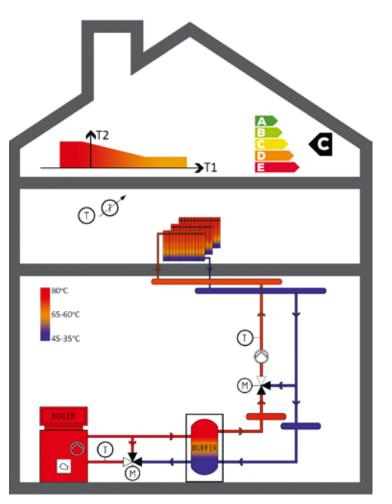
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EQUIPMENT SPECIFICATION

Control cabinet KO-CL110, Siemens controller RLU222, Water temperature sensor QAD2012 or QAE2112, Room temperature sensor QAA25, Three-port mixing valve*

Digital seven-day timer SEH62.1

*See table for selecting the valve and actuator, page 10



COMFO SAVING

OPTIONAL EQUIPMENT

OPTIONAL

EQUIPMENT

COMPACT LINE

CL120

The Compact Line Series (Siemens Synco200 Control-
ler) controls the temperature in the buffer tank with
the cascade control of two boilers.

RT S	A١	١D		
S				

Setting the temperature in the buffer tank compensated with outside temperature Switching on the second boiler in case the first boiler is insufficient

Automatic switch from day to night mode and vice versa via digital seven-day timer

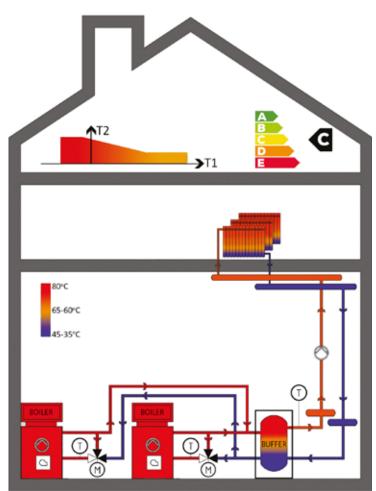


EQUIPMENT SPECIFICATION

Control cabinet KO-CL120, Siemens controller RLU222, Water temperature sensor QAD2012 or QAE2112, Three-port mixing valve*

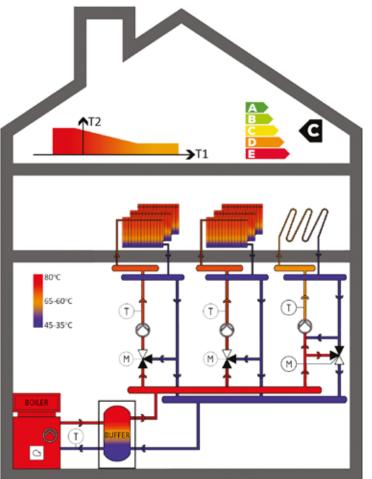
Digital seven-day timer SEH62.1

*See table for selecting the valve and actuator, page 10



PREMIUM LINE

PL100	The premium line series (Siemens Synco700 control- ler) controls the temperature in three heating circuits.
COMFORT AND SAVINGS	For each heating circuit compensation with outside temperature Automatic transition from day to night mode and vice versa via built in timer KNX communication
OPTIONS	Protect the return temperature to the boiler by redu- cing the temperature of heating circuits Set the room temperature in the referent room Remote Web control



PL100

COMFORT AND SAVINGS



EQUIPMENT SPECIFICATION

BASIC EQUIPMENT	Control cabinet KO-PL100, Siemens controller RMS705 + RMZ790 Water temperature sensor QAD2012 or QAE2112, Ex- ternal temperature sensor QAC2012, Three-port mi- xing valve*	
OPTIONAL EQUIPMENT	Room unit QAA25, Web server OZW772.01 for remote access	

See table for selecting the valve and actuator, page 10

PREMIUM LINE

PL110

The premium line series (Siemens Synco700 control-
ler) controls the temperature in two independent hea-
ting circuits and protects the boiler from the low return
temperature.

For each heating circuit compensation with outside temperature, Protection of the boiler from the low return temperature, Automatic transition from day to night mode and vice versa via built in timer KNX communication

Room unit QAA25, Web server OZW772.01 for remote access

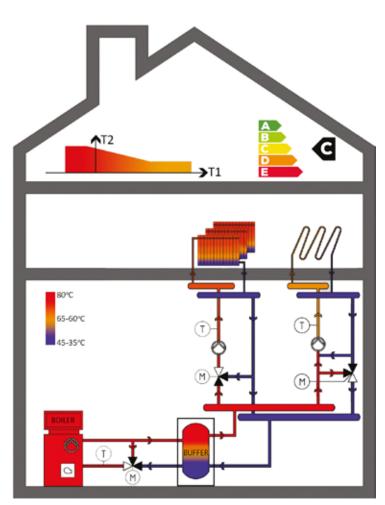


EQUIPMENT SPECIFICATION

OPTIONAL EQUIPMENT The premium line series (Siemens Synco700 controller) controls the temperature in two independent heating circuits and controls in cascade the heat pump, boiler and electrical boiler.

Room unit QAA25, Web server OZW772.01 for remote access

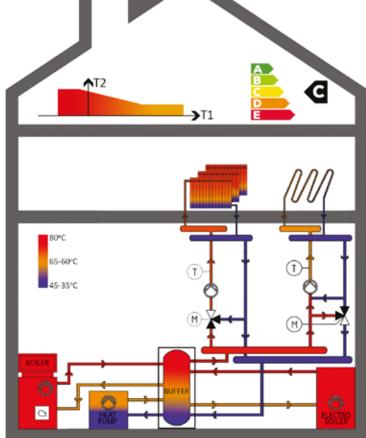
*See table for selecting the valve and actuator, page 10



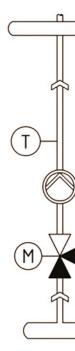
PREMIUM LINE

PL120

PL120	The premium line series (Siemens Synco700 control- ler) controls the temperature in two independent hea- ting circuits and controls in cascade the heat pump, boiler and electrical boiler.
COMFORT AND SAVINGS	Outside temperature compensation for each heating circuit Cascade control of the heat pump of the pump, boiler and electrical boiler KNX comunication
OPTIONS	Set the room temperature in the referent room Remote Web control



RADIAT



EQUIPMENT SPECIFICATION

Control cabinet KO-PL120, Siemens controller RMS705 + RMZ790, Water temperature sensor QAD2012 or QAE2112, External temperature sensor QAC2012, Three-port mixing valve*

Room unit QAA25, Web server OZW772.01 for remote access

*See table for selecting the valve and actuator, page 10

OPTIONAL

EQUIPMENT

TABLE FOR SELECTING THE VALVE AND ACTUATOR

TOR HEATING 80 / 60C	POWER RH	VALVE / FITTING / ACUATOR	FLOOR HEATING 45 / 40C	POWER RH	VALVE / FITTING / ACUATOR
	20KW	VXP45.20-4, ALG153, SSB61		20KW	VXP45.32-16, ALG323, SSC61
	30KW	VXP45.25-6.3, ALG203, SSB61		30KW	VXP45.40-25, ALG403, SSC61
	40KW	VXP45.25-6.3, ALG253, SSC61		40KW	VXF22.50-40, SAV61.00
	50KW	VXP45.25-10, ALG253, SSC61		50KW	VXF22.50-40, SAV61.00
)	60KW	VXP45.32-16, ALG323, SSC61		60KW	VXF22.50-40, SAV61.00
7	80KW	VXP45.32-16, ALG323, SSC61		80KW	VXF22.65-63, SAV61.00
	150KW	VXP45.40-25, ALG403, SSC61		150KW	VXF22.80-100, SAV61.00
	3 250KW VXF22.50-40, SAV61.00		250KW	VXF22.100-160, SAV61.00	
	350KW	VXF22.65-63, SAV61.00		350KW	VFX32.125-250, SAV61.00

Note: The data has to be checked for each installation

COMPARISON TABLE OF FUNCTIONALITY

	NUMBER OF CONTROL CIRCUITS	OUTSIDE TEMPERATURE COMPENSATION	ROOM TEMPERATURE SETTING	TIME PROGRAM	PROTECTION OF BOILER FROM LOW RETURN TEMPERATURE	CASCADE CONTROL	WEB ACCESS
BL100	1	~	×	Optional	×	×	×
CL100	2	~	×	Optional	Reduction of temperature in heating circuits	×	×
CL110	2	~	\checkmark	Optional	~	×	×
CL120	2	~	×	Optional	✓	2	×
PL100	3	~	Optional	✓	Reduction of temperature in heating circuits	×	Optional
PL110	3	~	Optional	✓	✓	×	Optional
PL120	3	~	Optional	✓	×	3	Optional



At the heart of every solution Covering every area of use and any technical duce operating costs thanks to their extreme- Siemens Building Products offers a broad application, you can be confident that for evly efficient use of energy. This means you can portfolio that covers a wide variety of requireachieve up to 30% savings - while still mainery device with the Siemens name on it a prements and applications. This extensive prodmium is placed on quality, reliability and dutaining a comfortable room climate. uct range forms the basis for efficient and cost-effective solutions across the entire liferability. Optimally matched heating **Creating perfect places** cycle of a building. The interplay of heating, ventilation and air conditioning as well as components minimize installation effort, re-We spend about 90 percent of our lives induce operating costs, and decrease the probdoors - starting with our birth in hospitals, ability of failure. Electrically powered actuatlightning and shading maximizes energy savlearning at school, studying at universities, ing devices (valve and damper actuators), ings and user comfort. succeeding in office buildings. Buildings are variable speed drives as well as room control-With new product developments Siemens not just places for working and living. They lers are all designed to be low energy concontinues to expand its product portfolio. are the places where we spend our lives. That sumers and that translates into a lower total Transform your buildings into perfect places is the reason why building technology is so cost of operation. using innovative products and proven appliimportant. Using the right technology, we imcations from Siemens. **Energy efficiency as a key argument** prove the lives of people by improving their Heating products from Siemens effectively rebuildings.

BENEFITS OF SIEMENS PRODUCTS

