CMIS
Certus Management Information System™

Features and benefits

- CMIS is a software which provides laundry professionals with vital information about their washer extractors, tumble dryers and ironers. All in order to minimize costs and maximize uptime of the equipment

- CMIS provides the following process information:
  - statistics (running hours, idle time, consumption figures*, machine usage, total consumption, cost calculation etc.)
  - process validation (print of receipt)
  - maintenance intervals (actions are logged)
  - error alerts (recommend actions)

- Up to 30 machines can be installed in a network connected to a PC

- All the data provided by CMIS is easily transferable to other computer programs such as Microsoft Excel

- CMIS is easy to install and use. Most average-sized laundries can be fully equipped in less than one day

- For latest software version please check www.electrolux.com/laundrysystems

PC requirements

- A computer according to specification on page 2 should be provided by the customer at site of installation

- The computer must be in operation the same time as the laundry to collect data from the laundry process

Technical specification

Description	Quantity	Product No	Description/content
PC-software, kit English	1 per site	988 9161-89	Software (CD), CMIS Interface PC, transformer 24V DC, serial wire, manuals
PC-software, kit Swedish	1 per site	988 9161-92	Software (CD), CMIS interface PC, transformer 24V DC, serial wire, manuals
PC-software, kit German	1 per site	988 9161-93	Software (CD), CMIS interface PC, transformer 24V DC, serial wire, manuals
PC-software, kit French	1 per site	988 9161-94	Software (CD), CMIS interface PC, transformer 24V DC, serial wire, manuals
PC-software, kit Japanese	1 per site	988 9162-50	Software (CD), CMIS interface PC, transformer 24V DC, serial wire, manuals
Software upgrade kit	1 per site	988 8022-54	Software (CD), operating manual
Interface machine, kit No. 1	1 per machine	988 9161-90	Interface machine, wires, installation manual. Except W3400H/W4400H to W31100H/W41100H.
Interface machine, kit No. 2	1 per machine	988 9161-91	Interface machine, wires, installation manual. For W3400H/W4400H to W31100H/W41100H.
Interface machine, kit No. 3	1 per machine	988 9161-98	Com-module, installation manual. For dryers with Selecta Control version 1.
Interface machine, kit No. 4	1 per machine	988 9161-99	Interface machine, wires, connectors, installation manual. For ironers with electronic control panel.
Interface machine, kit No. 5	1 per machine	988 9162-51	Wires, connectors, installation manual. For T4130 and T4190.
Interface machine, kit No. 6	1 per machine	988 9162-52	Wires, connectors, installation manual. For T4300.
Interface machine, kit No. 7	1 per machine	988 9162-53	Wires, connectors, installation manual. For all dryers with Selecta Control version 2/Compass Control (Except T4130, T4190, T4300).
Network wire	acc. to site	988 9161-95	Reel with 100 m, (spec. see page 2). 4 x 0,22 mm² or 4 x AWG24 cable

Certified in accordance with ISO 9001 and ISO 14001 and approved IP 24D.

* Consumption is measured in time and calculated to litres, ml or kWh by using a factory made constant table.
   This table is possible to calibrate locally for best precision.*

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System requirements

PC

Microsoft Windows 95, 98, Me, 2000, NT4 SP5 or XP.

Microsoft Internet Explorer 5.0 or higher

Microsoft Excel 97 or later*

Intel Pentium compatible, 400Mhz or better

64Mb Ram or better (128Mb recommended)

Requirements Free Harddisk space (original database settings CMIS):
10 machines – No less than 250 MB
20 machines - No less than 500 MB
30 machines – No less than 750 MB
Recommended Free Harddisk space is 1GB

SVGA display 800 X 600 resolution (1024 X 768 recommended)

CD-ROM drive

1 Free serial port (9-pole DSUB, DB9M)

Mouse or compatible pointing device

CMIS requires Borland Interbase Server 6.01 as a database server. Installation of Borland Interbase Server 6.01 is included in the CMIS Setup.exe file, but could not be installed if an earlier version of Borland Interbase is installed on the same machine.
Earlier versions of Borland Interbase must be manually uninstalled/updated before CMIS could be installed. Contact your vendor for programs that uses earlier versions of Borland Interbase to find out if it is possible to upgrade or install CMIS on another computer.

* From version 3.2
Microsoft Excel 97 or later is required for full functionality in statistics/cost calculations. If no Excel version exists when installing CMIS, an Excel viewer will be installed. This Excel viewer will however provide only limited functionality, i.e it will not be able to change costs, etc.

Printer

For best performance when printing statistics and receipt, a colour printer is recommended.

Network

Maximum 30 machines connected to a single network

Maximum length of wire in a network is 500 meters

Recommended wire:
Type: Control, Instrumentation or Computer cable
Stranded wire, Tinned Copper, 4 x 0.22mm^2 (= 4 x AWG24), Diam 4-5 mm
Insulation: PVC insulation, 300V, 70°C or better
Approvals: According to local prescriptions

Washer extractors

Hardware
CMIS is supported by machines equipped with Clarus Control only.
CMIS is connected to a serial port (X7) on Clarus Control CPU board. It is important to verify that serial port is free to use. In some specific installations this serial port might have been used for larger liquid supply systems. Verify this with the supplier of liquid supply before an installation is made. Alternative solutions are available, contact our technical support.

Software
CMIS protocol is implemented in Clarus Control software as listed below:

FLE125, FLE175, FLE225, FLE400FC, FLE850MP, FLE335MP, EXSM230, EXSM350, W3400H
Version 3.4 and later

W375N to W3330N
W3280X, W3350X, W3600X
W385M to W3330M
W365H to W3300H
W3600H, W3850H, W31100H
Version 1.0 and later

W475M to W4330M
W465H to W4300H
W4400H to W41100H
All versions

Barrier washer extractors
Version 1.8 and later

Version number could normally be verified by reading part No and version number in top line of display of Clarus Control. If CMIS is supported could also be verified by entering Settings 1 on the machine. In Settings 1 a text line "Machine Address CMIS" should be available. If this line exists CMIS is supported.

Machines with earlier versions of software than above listed need to be updated to support CMIS. Contact our technical support.

Tumble dryers

Hardware

CMIS is supported by machines equipped with Selecta Control/Compass Control only.

CMIS requires a machine interface kit to be assembled in machine.

Following installation kit should be used:
Interface machine, kit No. 3 (Selecta Control version 1)
T3190
T3250
T3290 up to machine No. –2030/26304 and –03290/539
T3300
T3350
T3530 up to machine No. –2050/21748
T3650 up to machine No. –2075/9162
T4250 up to machine No. –23250/6969
T4350 up to machine No. –23250/6969

Interface machine, kit No. 5 (Selecta Control version 2/Compass Control)
T4130
T4190

Interface machine, kit No. 6 (Selecta Control version 2/Compass Control)
T4300

Interface machine, kit No. 7 (Selecta Control version 2/Compass Control)
T3290 from machine No. 2030/26305– and 3290/540–
T3530 from machine No. 2050/21749– and 6050/xxxx
T3650 from machine No. 2075/9163– and 6075/xxxx
T3900
T31200
T4250 from machine No. 23250/6970– and 04250/xxxx–
T4290
T4350 from machine No. 23250/6970– and 04350/xxxx–
T4530
T4650
T4900
T41200

Software

Selecta Control version 1

CMIS is implemented in Selecta Control software version 3.23 or later.

Version number can be read at the label on the Process module or in the service menu parameter number 3.07.

It is possible to upgrade an older version of Selecta control to a version that supports CMIS by installing 988 9162-37 Upgrade kit Selecta 110.

Selecta Control version 2/Compass Control

CMIS is implemented in Selecta Control software version 4.10 or later.

Version number can be read in service menu parameter number 3.07.

It is possible to upgrade an older version of Selecta Control/Compass Control by installing an upgrade kit for the actual dryer type. Please refer to spare part list for more information.

Ironers

Hardware

CMIS is supported by machines equipped with electronic control panel only.
CMIS requires interface kit machine to be assembled in ironer.

Software

CMIS is implemented in software version 3.0. and later.
Version number can be read in display during power up.
It is possible to upgrade an ironer with software version older than version 3.0. Contact ELS for more information.

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