

SHIMADZU

Prominence

Shimadzu Prominence is a modular high-performance liquid chromatography (HPLC) platform. It supports isocratic and gradient configurations using a wide range of compatible pumps, autosamplers, column ovens, degassers, and detectors under centralized LAN control.

SPECIFICATIONS

General

Interfaces	Ethernet (via CBM-20A/CBM-20A Lite system controller); module instrument bus; front-panel I/O (module-dependent)
Display	Front-panel LCD/keypad on modules; browser-based interface via CBM-20A

Physical

Power Supply	100–240 V AC, 50/60 Hz (per module; consumption is module-dependent)
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System Performance

System architecture	Modular, stackable HPLC system with centralized controller
Maximum operating pressure	Up to 40 MPa (pump-dependent)
Gradient types supported	Isocratic, binary HPG, ternary/quaternary LPG (configuration-dependent)
Mixing modes	High-pressure and low-pressure mixing (configuration-dependent)
Degassing	Vacuum membrane degassing available (module-dependent)

Solvent Delivery – Pumps

Pumps (compatible)	LC-20AD, LC-20AT (analytical class)
Prime/purge capability	Available on solvent delivery modules (module-dependent)

Gradient Formation and Mixing

Gradient formation	HPG using dual pumps; LPG using multi-solvent proportioning (configuration-dependent)
Quaternary solvent selection	Supported via low-pressure proportioning (configuration-dependent)

Degasser

Degasser models	DGU-20A3 (3-channel), DGU-20A5 (5-channel)
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Autosampler / Sample Manager

Autosampler models	SIL-20A; SIL-20AC (with Peltier cooling)
Autosampler cooling	Peltier cooling with SIL-20AC

Column Oven / Thermostat

Column oven models

CTO-20A series

Detector – UV-Vis Absorbance

UV-Vis detector options

SPD-20A / SPD-20AV series (variable-wavelength)

Detector – Photodiode Array (PDA/DAD)

PDA detector option

SPD-M20A photodiode array detector

Detector – Fluorescence (FLD)

Fluorescence detector option

RF-20Axs series

Detector – Refractive Index (RID)

Refractive index detector option

Available (model-dependent)

Connectivity and Interfaces

System controller

CBM-20A or CBM-20A Lite

LAN control/monitoring

Ethernet-based system control; browser monitoring via CBM-20A

Software and Data Management

Software compatibility

Shimadzu LCsolution / LabSolutions (version-dependent)

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Supported via Shimadzu compliance software options (software-dependent)

Remote system configuration

Centralized method/sequence control via controller software

Physical Specifications

Stacking footprint

Modular stack arrangement (module dimensions vary by unit)

Safety Features

Leak management

Internal leak sensing in modules (module-dependent)

Valves and Switching Modules

Valve/switching options

High-pressure and low-pressure valve modules available

Mass Spectrometer Interface

MS interfacing

Configurable via appropriate interfaces/sources (system-dependent)

Materials and Wetted Parts

Materials in flow path

Stainless steel and polymer components (module-dependent)

Documentation

Documentation

User manuals, installation guides, and IQ/OQ/PQ documentation available

Power Requirements

Regional power options

Universal-input modules for global mains (module-dependent)

