

CEL/800 Series Portable Laboratories

CHEMICALS, REAGENTS, & MEDIA



CEL/890 Advanced Portable Laboratory

Our most versatile portable laboratory, this fully configured system meets the most demanding needs. It includes a full complement of instruments and reagent sets for more than 20 parameters. You can also custom design your own portable laboratory by specifying only the instrumentation set and selecting reagent sets for your own parameters of interest, see pages 188-259. Case Style J is 21 x 11.5 x 11".

How To Order

Product Code	Description	Price
26885-00	CEL/890 Advanced Portable Laboratory with reagents Includes DR/890 Colorimeter, sensION1 pH/ mV/Temp Meter, sensION5 Conductivity/TDS Meter, Digital Titrator, illustrated instrument and procedures manuals, reagent sets, and all required apparatus in a rugged carrying case.	\$2,413.00
26886-00	CEL/890 Laboratory without reagents Includes DR/890 Colorimeter, sensION1 pH/ mV/Temp Meter, sensION5 Conductivity/TDS Meter, Digital Titrator, illustrated instrument and procedures manuals, and a rugged carrying case.	2,051.00
49430-00	Carrying case and insert only, Style J	150.00
26906-00	Replacement Reagent Set, complete	469.00

Parameter	Range	No. of Tests
Acidity (as CaCO ₃)*	10-4,000 mg/L	100
Alkalinity (as CaCO ₃)*	10-4,000 mg/L	100
Ammonia, LR (as N)	0-0.50 mg/L	100
Carbon Dioxide*	10-1,000 mg/L	100
Chloride*	10-10,000 mg/L	100
Chlorine, Free	0-2.00 mg/L	100
Chlorine, Total	0-2.00 mg/L	100
Chlorine Dioxide	7-50 mg/L	†
Color	0-500 units	†
Conductivity/TDS	0-199.9 mS/cm	†
Copper	0-5.00 mg/L	100
Dissolved Oxygen	0-15.0 mg/L	25
Hardness (as CaCO ₃)*	10-4,000 mg/L	100
Iron, Total	0-3.00 mg/L	100
Manganese, HR	0-20.0 mg/L	100
Nitrate (as N)	0-30.0 mg/L	100
Nitrite (as N)	0-0.350 mg/L	100
pH	0-14 pH units	†
Phosphate	0-2.50 mg/L	100
Silica, LR	0-1.60 mg/L	100
Sulfate	0-70 mg/L	100
Sulfide	0-0.70 mg/L	100
Suspended Solids	0-750 mg/L	†
Temperature	-10 to 110°C	—
Turbidity	21-1,000 FAU	—
Zinc	0-3.00 mg/L	100

*Titration method. †No reagent required.

Order online* at: www.hach.com

*U.S. customers only.



CEL/800 Series Portable Laboratories



CEL/890 Advanced Drinking Water Laboratory

The CEL/890 Advanced Drinking Water Laboratory provides complete field capabilities, with instrumentation and tests that cover every major drinking water parameter. The laboratory includes a sensION1 pH meter, sensION5 Conductivity Meter, and Digital Titrator. The DR/890 Colorimeter allows addition of many optional parameters, see pages 188-259. Case Style J is 21 x 11.5 x 11".

How To Order

26881-00	CEL/890 Advanced Drinking Water Laboratory Includes DR/890 Colorimeter, sensION1 pH meter, sensION5 Conductivity Meter, Digital Titrator, reagent sets, apparatus, illustrated instrument and procedures manuals, and a sturdy field case.	\$2,640.00
26902-00	Replacement Reagent Set, complete	438.00

Parameter	Range	No. of Tests
Alkalinity (as CaCO ₃)*	10-4,000 mg/L	100
Aluminum	0-0.800 mg/L	100
Chloramine, mono (as CL ₂)	0-4.50 mg/L	50
Chlorine, Free	0-2.00 mg/L	100
Chlorine, Free	0-10.0 mg/L	100
Chlorine, Total	0-2.00 mg/L	100
Chlorine, total	0-10.0 mg/L	100
Chlorine Dioxide	7-50 mg/L	†
Color	25-500 units	†
Conductivity/TDS	0-199.9 mS/cm	†
Copper	0-210 µg/L	100
Dissolved Oxygen	0-15.0 mg/L	25
Fluoride	0-2.0 mg/L	25
Hardness (as CaCO ₃)	10-4,000 mg/L	100
Iron, Total	0-3.00 mg/L	100
Manganese, LR	0-0.700 mg/L	100
Nitrate, HR (as N)	0-30.0 mg/L	100
Nitrate, LR (as N)	0-0.50 mg/L	100
Nitrite (as N)	0-0.350 mg/L	100
pH	0-14 pH units	†
Phosphate	0-2.50 mg/L	100
Sulfate	0-70 mg/L	100
Sulfide	0-0.70 mg/L	100
Temperature	10 to 110°C	†
Turbidity	21-1,000 FAU	†

*Titration method. †No reagent required.

CEL/850 Basic Drinking Water Laboratory

Designed to include the most commonly tested parameters for drinking water, the CEL/850 Basic Drinking Water Laboratory offers operators basic analytical capabilities in a single convenient package. Monitor influent, finished product, and distribution water quickly and easily. The laboratory includes the sensION5 Conductivity Meter for measuring conductivity and total dissolved solids. Case Style J is 21 x 11.5 x 11".

How To Order

26880-00	CEL/850 Basic Drinking Water Laboratory Includes DR/850 Colorimeter, sensION5 Conductivity Meter, reagent sets, apparatus, illustrated instrument and procedures manuals, and a sturdy field case.	\$1,682.00
26898-00	Replacement Reagent Set, complete	360.00

Parameter	Range	No. of Tests
Alkalinity (as CaCO ₃)*	5-400 mg/L	100
Aluminum	0-0.800 mg/L	100
Chloramine, mono (as CL ₂)	0-4.5 mg/L	50
Chlorine, Free	0-2.00 mg/L	100
Chlorine, Total	0-2.00 mg/L	100
Conductivity/TDS	0-199.9 mS/cm	†
Dissolved Oxygen	0-15.0 mg/L	25
Fluoride	0-2.0 mg/L	25
Hardness (as CaCO ₃)	20-400 mg/L	100
Iron, Total	0-3.00 mg/L	100
Nitrate (as N)	0-30.0 mg/L	100
Nitrite (as N)	0-0.350 mg/L	100
pH	6.5-8.5 pH units	100
Phosphate	0-2.50 mg/L	100
Sulfate	0-70 mg/L	100
Sulfide	0-0.700 mg/L	100
Temperature	10 to 110°C	†
Turbidity	21-1,000 FAU	†

*Titration method. †No reagent required.

CEL/800 Series Portable Laboratories

CHEMICALS, REAGENTS, & MEDIA



CEL/850 Professional Water Conditioning Laboratory

The CEL/850 Professional Water Conditioning Laboratory features the DR/850 Colorimeter, affording extended testing capabilities with the option of adding more parameters for site or application-specific needs. The laboratory includes a sensION1 pH Meter, sensION5 Conductivity Meter, a water softener, and Digital Titrator. Case Style J is 21 x 11.5 x 11".

How To Order

26877-00	CEL/850 Professional Water Conditioning Laboratory Includes DR/850 Colorimeter, sensION1 pH Meter, sensION5 Conductivity Meter, Digital Titrator, reagent sets, apparatus, and illustrated instrument and procedures manuals in a sturdy field case.	\$2,448.00
26896-00	Replacement Reagent Set, complete	362.00

Parameter	Range	No. of Tests
Alkalinity (as CaCO ₃)*	10-4,000 mg/L	100
Chloride*	10-10,000 mg/L	100
Chlorine, Total	0-2.00 mg/L	100
Conductivity/TDS	0-199.9 mS/cm	†
Fluoride	0-2.0 mg/L	25
Hardness (as CaCO ₃)*	10-4000 mg/L	100
Iron, Total	0-3.00 mg/L	100
Manganese, HR	0-20.0 mg/L	100
Nitrate, LR (as N)	0-0.50 mg/L	100
Ozone, MR	0-0.75 mg/L	25
pH	0-14 pH units	†
Phosphate	0-2.50 mg/L	100
Soap Demonstration	—	—
Sulfate	0-70 mg/L	100
Tannin	0-9.0 mg/L	100
Temperature	-10 to 110°C	†
Turbidity	21-1,000 FAU	†
Water Softener	—	—
Zinc	0-3.00 mg/L	100

*Titration method. †No reagent required.



CEL/820 Water Conditioning Laboratory

The CEL/820 Water Conditioning Laboratory offers the water quality improvement/purification professional a capable instrument and all equipment needed to accomplish fast, accurate testing on-site. The laboratory also includes a TDS Pocket Pal™ Tester and a water softener. Case Style Q is 17.5 x 10.25 x 8.5".

How To Order

26891-00	CEL/820 Water Conditioning Laboratory Includes DR/820 Colorimeter, TDS Pocket Pal™ Tester, reagent sets, apparatus, and illustrated instrument and procedures manuals in a sturdy field case.	\$953.00
26894-00	Replacement Reagent Set, complete	201.00

Parameter	Range	No. of Tests
Alkalinity (as CaCO ₃)*	5-400 mg/L	100
Chlorine, Total	0-2.00 mg/L	100
Hardness (as CaCO ₃)*	20-400 mg/L	100
Iron, Total	0-3.00 mg/L	100
Manganese, HR	0-20.0 mg/L	100
Nitrate, LR (as N)	0-0.50 mg/L	100
pH	6.5-8.5 pH units	100
Soap Demonstration	—	—
Sulfate	0-70 mg/L	100
TDS	10-1,990 mg/L	†
Temperature	-10 to 110°C	†
Turbidity	21-1,000 FAU	†
Water Softener	—	—

*Titration method. †No reagent required.

CEL/800 Series Portable Laboratories



CEL/890 Advanced Wastewater Laboratory

The Advanced Wastewater Laboratory adds the testing capabilities of the DR/890 Colorimeter, providing an analytical platform well-suited to a wide array of additional optional test parameters. The laboratory includes a sensION1 pH Meter. Case Style J is 21 x 11.5 x 11".

How To Order

26883-00	CEL/890 Advanced Wastewater Laboratory. Includes the DR/890 Colorimeter, a sensION1 pH/mv/Temp Meter, reagent sets, apparatus, and illustrated instrument and procedures manual.	\$1,725.00
26904-00	Replacement Reagent Set, complete	373.00

Parameter	Range	No. of Tests
Aluminum	0-0.800 mg/L	100
Ammonia (as N)	0-0.50 mg/L	100
Chlorine, Total	0-2.00 mg/L	100
Chlorine, Total	0-2.00 mg/L	100
Chlorine Dioxide	7-50 mg/L	†
Chromium, Total + Hexavalent	0-0.60	100
Color	25-500 units	†
Copper, HR	0-5.00 mg/L	100
Dissolved Oxygen	0-15.0 mg/L	25
Iron, Total	0-3.00 mg/L	100
Manganese, LR	0-0.700 mg/L	100
Nitrate (as N)	0-30.0 mg/L	100
Nitrite (as N)	0-0.350 mg/L	100
pH	0-14 pH units	—
Phosphate, LR	0-2.50 mg/L	100
Phosphate, HR	0-30.0 mg/L	100
Suspended solids	0-750 mg/L	†
Temperature	-10 to 110°C	†
Turbidity	21-1,000 FAU	†
Zinc	0-3.00 mg/L	100

†No reagent required.



CEL/820 Basic Wastewater Laboratory

Offering broad analytical capabilities to meet the needs for basic wastewater analysis, the CEL/820 Basic Wastewater Laboratory provides accurate results, wherever you need them. It also includes the pH Pocket Pal™ Tester. Case Style Q is 17.5 x 10.25 x 8.5".

How To Order

26882-00	CEL/820 Basic Wastewater Lab Includes DR/820 Colorimeter, Pocket Pal pH tester, reagent sets, apparatus, and illustrated instrument and procedures manuals in a sturdy field case.	\$865.00
26900-00	Replacement Reagent Set, complete	193.00

Parameter	Range	No. of Tests
Aluminum	0-0.800 mg/L	100
Chlorine, Total	0-2.00 mg/L	100
Dissolved Oxygen	0-15.0 mg/L	25
Iron, Total	0-3.00 mg/L	100
Nitrate (as N)	0-30.0 mg/L	100
Nitrite (as N)	0-0.350 mg/L	100
pH	0-14 pH units	†
Phosphate, HR	0-30.0 mg/L	100
Temperature	-10 to 110°C	†
Turbidity	21-1,000 FAU	†

†No reagent required.

CEL/800 Series Portable Laboratories

CEL/890

Professional Water Treatment Laboratory

For boiler/cooling water applications

Offering quick, on-the-spot results, the CEL/890 Professional Water Treatment Laboratory covers parameters critical to effective treatment and corrosion prevention. The laboratory includes sensION1 pH Meter, sensION5 Conductivity Meter, and Digital Titrator. BART™ (Biological Activity Reaction Test) Biotectors are also included for bacterial detection. Case Style J is 21 x 11.5 x 11".

BART is a trademark of Droycon Bioconcepts, Inc.

How To Order

26884-00	CEL/890 Professional Water Treatment Laboratory Includes DR/890 Colorimeter, sensION1 pH Meter and sensION5 Conductivity Meter, Digital Titrator, BARTs™, reagent sets, apparatus, and illustrated instrument and procedures manuals in a sturdy field case.	\$2,919.00
26909-00	Replacement Reagent Set, complete	475.00

Parameter	Range	No. of Tests
Alkalinity (as CaCO ₃)*	10-4,000 mg/L	100
Bacteria (Iron-Related, Sulfate-Reducing, Slime-Forming)	Presence/Absence	3 ea.
Bromine	0-4.50 mg/L	100
Chelant, Total (as EDTA)*	0-40.0 mg/L	100
Chloride*	10-1,000 mg/L	100
Chlorine, Free	0-5.0 mg/L	100
Chlorine, Free	0-2.00 mg/L	100
Chlorine, Total	0-10.0 mg/L	100
Chlorine, Total	0-2.00 mg/L	100
Chlorine Dioxide	7-50 mg/L	†
Color	25-500 units	†
Conductivity/TDS	0-199.9 mS/cm	†
Copper, LR	0-210 µg/L	100
Dissolved Oxygen, LR	0-1000 µg/L	25
Hardness (as CaCO ₃)	0-4.00 mg/L	100
Hardness (as CaCO ₃)*	10-4000 mg/L	100
Iron, Total	0-3.00 mg/L	100
Manganese, HR	0-20.0 mg/L	100
Molybdenum, HR	0-40.0 mg/L	100
Nitrite, HR (as NO ₂ ⁻)	0-150 mg/L	100
pH	0-14 pH units	—
Phosphate, HR	0-30.0 mg/L	100
Phosphonates	0-125 mg/L	100
Silica, LR	0-1.60 mg/L	100
Silica, UHR	0-200 mg/L	100
Sulfite*	10-800 mg/L	100
Suspended Solids	0-750 mg/L	†
Temperature	-10 to 110°C	†
Turbidity	21-1,000 FAU	†
Zinc	0-3.00 mg/L	100

*Titration method. †No reagent required.



CEL/850

Environmental Water Quality Laboratory

Most important environmental tests can be performed using just one portable laboratory, with everything necessary for determining water quality in the field, and fast, on-the-spot results. The laboratory includes a Digital Titrator.

Case Style J is 21 x 11.5 x 11".

How To Order

26878-00	CEL/850 Environmental Water Quality Laboratory Includes DR/850 Colorimeter, Digital Titrator, reagent sets, apparatus, and illustrated instrument and procedures manuals in a sturdy field case.	\$1,160.00
26908-00	Replacement Reagent Set, complete	292.00

Parameter	Range	No. of Tests
Acidity (as CaCO ₃)*	10-4,000 mg/L	100
Alkalinity (as CaCO ₃)*	10-4,000 mg/L	100
Ammonia (as NH ₃ -N)	0-0.50 mg/L	100
Carbon Dioxide*	10-1,000 mg/L	100
Chlorine, Free	0-2.00 mg/L	100
Chlorine, Total	0-2.00 mg/L	100
Hardness (as CaCO ₃)*	10-4,000 mg/L	100
Iron, Total	0-3.00 mg/L	100
Manganese, HR	0-20.0 mg/L	100
Nitrate, LR (as N)	0-0.50 mg/L	100
Nitrite (as N)	0-0.350 mg/L	100
Phosphate	0-2.50 mg/L	100
Sulfide	0-0.70 mg/L	100
Tannin/Lignin	0-9.0 mg/L	100
Temperature	-10 to 110°C	†
Zinc	0-3.00 mg/L	100

*Titration method.

CEL/800 Series Portable Laboratories



CEL/850 Aquaculture Laboratory

Monitor water quality easily with the portable CEL/850 Aquaculture Laboratory. Fast, on-the-spot results can identify problems early and help determine corrective action. The laboratory includes the sensION1 pH Meter, Digital Titrator, and TDS Pocket Pal™ Tester. Case Style J is 21 x 11.5 x 11".

How To Order

26879-00	CEL/850 Aquaculture Laboratory	\$1,812.00
	Includes DR/850 Colorimeter, sensION1 pH Meter, Digital Titrator, TDS Pocket Pal™ Tester, reagent sets, apparatus, and illustrated instrument and procedure manuals in a sturdy field case.	
26917-00	Replacement Reagent Set, complete	239.00

Parameter	Range	No. of Tests
Acidity (as CaCO ₃)*	10-4,000 mg/L	100
Alkalinity (as CaCO ₃)*	10-4,000 mg/L	100
Ammonia (as N)	0-0.50 mg/L	100
Carbon Dioxide*	10-1,000 mg/L	100
Chloride*	10-10,000 mg/L	100
Dissolved Oxygen	0-15.0 mg/L	25
Hardness (as CaCO ₃)*	10-4,000 mg/L	100
Iron	0-3.00 mg/L	100
Nitrate (as N)	0-30.0 mg/L	100
Nitrite (as N)	0-0.350 mg/L	100
pH	0-14 pH units	—
Phosphorus, reactive	0-2.50 mg/L	100
TDS	10-1,990 mg/L	†
Temperature	-10 to 110°C	†
Turbidity	21-1,000 FAU	†

*Titration method. †No reagent required.



CEL/820 Water, Water Everywhere Education Laboratory

The CEL/820 *Water, Water Everywhere* Education Laboratory offers one easy-to-store, easy-to-use portable system for a complete range of parameters. Students can easily follow the step-by-step instructions to obtain accurate, high-confidence results. Laboratories include the *Water, Water Everywhere* curriculum. It covers the basics of water quality, the water cycle, and more. Case Style Q is 17.5 x 10.25 x 8.5".

How To Order

26876-00	CEL/820 Water Water Everywhere Education Laboratory.	\$689.00
	Includes DR/820 Colorimeter, reagent sets, apparatus, illustrated instrument and procedures manuals, and curriculum in a sturdy field case.	
27232-00	Replacement Reagent Set, complete	168.00

Parameter	Range	No. of Tests
Chlorine, Total	0-2.00 mg/L	100
Iron, Total	0-3.00 mg/L	10
Nitrate (as N)	0-30.0 mg/L	100
Dissolved Oxygen	0-15.0 mg/L	25
pH	6.5-8.5 pH units	100
pH (test strips)	0-14 pH units	100
Temperature	-10 to 110°C	†
Turbidity	21-1,000 FAU	†

†No reagent required.