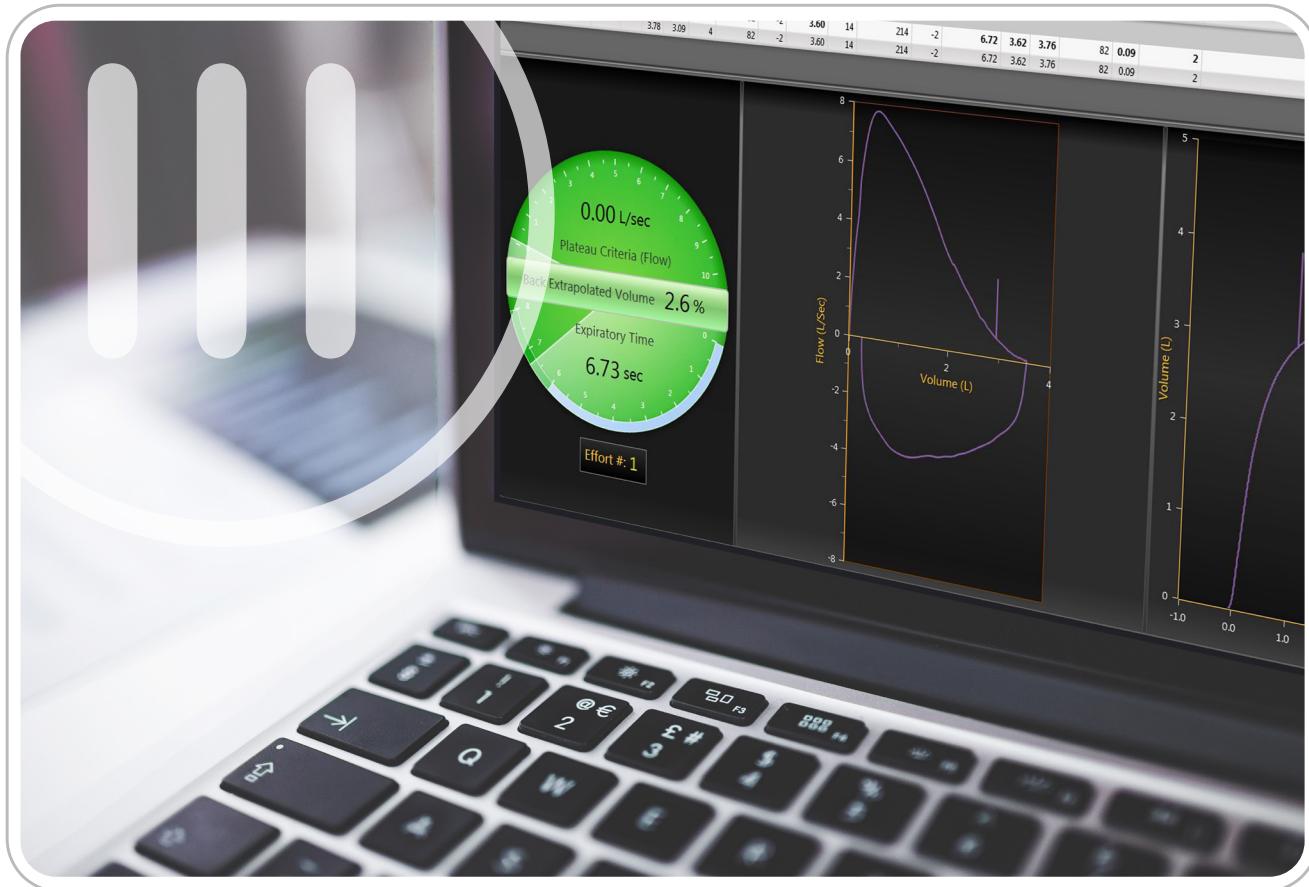


ASCENT

cardiorespiratory diagnostic software



Ascent™ Software Options

MGC Diagnostics' Ascent software is a comprehensive, user-friendly platform designed to streamline and enhance pulmonary function testing (PFT), cardiopulmonary exercise testing (CPET and analysis). With a wide range of software options and capabilities, Ascent empowers healthcare professionals to deliver accurate and efficient patient care.

Software **OPTIONS**

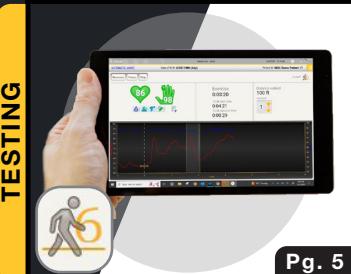
www.mgcdiagnostics.com



SOFTWARE OPTIONS At a Glance



TESTING



TESTING



TESTING



TESTING

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Pg. 5

Pg. 5

Pg. 5

BRONCHIAL
PROVOCATION

6 MINUTE WALK TEST

EXFVL

EXERCISE



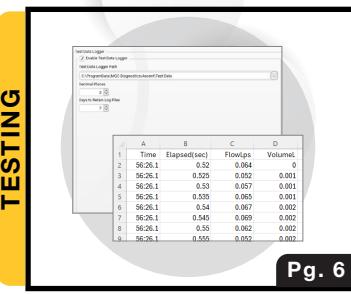
TESTING



TESTING



TESTING



TESTING

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Pg. 5

Pg. 6

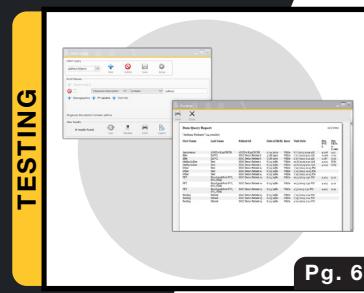
Pg. 6

NUTRITION

LAB MANAGEMENT

HAST

TEST DATA LOGGING



TESTING



ANALYSIS



ANALYSIS



ANALYSIS

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Pg. 7

Pg. 7

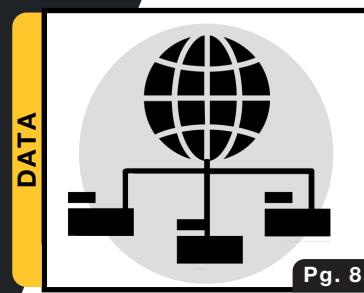
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PATIENT QUERY

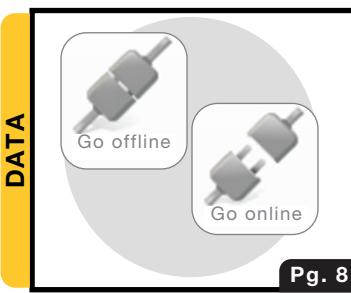
EXERCISE CONSULT &
PULMONARY CONSULT

EXERSCRIPT

ELECTRONIC SIGNATURE



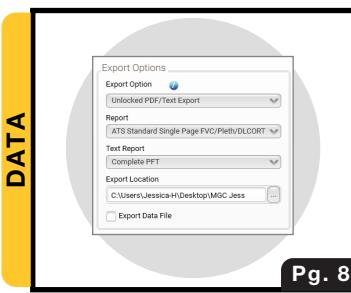
DATA



DATA

Pg. 8

Pg. 8



DATA

Pg. 8



DATA

Pg. 8

First Things First...

Ascent™ software: Your Path to Elevated Cardiorespiratory Diagnostics

MGC Diagnostics' Ascent™ software is the cornerstone of streamlined workflow solutions. This versatile platform seamlessly integrates pulmonary function testing (PFT) and cardiopulmonary exercise testing (CPET) into a single, intuitive interface. Ascent software offers a suite of customizable testing options to streamline your laboratory workflow.

Take Your Diagnostics to New Heights. | Explore Our Software Options.



A medical technology company in relentless pursuit of better. //

ECG

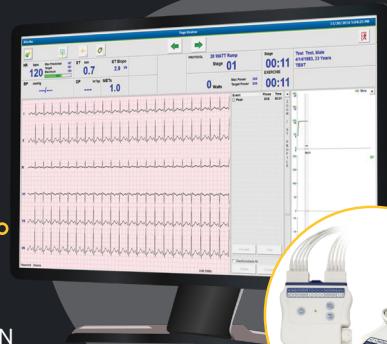
Streamline your exercise testing workflow

When a diagnosis is unclear, CPET with ECG can help identify cardiac or pulmonary limitations not evident with basic PFT, resting ECG, or stress ECG.



ECG & VO₂ TESTING WITH PHILIPS

PN 147902-319 | SW ASCENT UNI-DIRECTIONAL ECG OPTION



ECG & VO₂ TESTING WITH MORTARA

PN 147902-318 | SW ASCENT CARDIO2 ECG OPTION

Testing

Customizable Testing Options

Ascent software offers a suite of customizable testing options to streamline your laboratory workflow. Integrating seamlessly with Ascent, these additional testing capabilities empower you to expand your services, enhance patient care, and drive clinical decision-making.

BRONCHIAL PROVOCATION

PN: 147902-301 | SW ASCENT BRONCH PROV OPTION - SINGLE
PN: 147902-305 | SW ASCENT BRONCH PROV OPTION - CPFS/D
PN: 147902-307 | SW ASCENT BRONCH PROV OPTION - NETWORKED
PN: 147902-332 | SW ASCENT BRONCH PROV OPTION - ENTERPRISE +6

Bronchial Provocation tests airway sensitivity by exposing patients to a challenge agent like Methacholine. The test measures lung function before and after each dose, looking for a decrease in FEV1 or an increase in Raw or sGaw. A positive response indicates airway hyper-reactivity.



- **Protocol Guidance:** The Protocol guides the technician through increasing challenge stages.
- **Positive Indicators:** The Protocol can have up to 2 positive indicators to trigger the next stage.
- **Timer Functionality:** A timer can be used for consistent drug administration between stages.
- **Protocol Log:** The Protocol Log allows for manual adjustments to the protocol and stage definitions.
- **BRP Trend:** The BRP Trend summarizes the patient's response to the protocol.



SIX-MINUTE WALK TEST (6MWT)

PN: 147902-315 | SW ASCENT SIX MINUTE WALK TEST OPTION

Ascent software's 6MWT option, paired with the Nonin WristOx₂ 3150 Bluetooth® Pulse Oximeter, streamlines patient testing. This integrated solution offers wireless convenience, mobile flexibility, comprehensive data capture, O₂ Titration capabilities, and customizable testing options.



ExFVL

PN: 147902-316 | SW ASCENT EXFVL OPTION – SINGLE

PN: 147902-326 | SW ASCENT EXFVL OPTION - NETWORKED

PN: 147902-340 | SW ASCENT EXFVL OPTION - Enterprise 6+

Monitor Exercise Flow Volume loops during an exercise test to evaluate the presence and severity of expiratory flow limitation and dynamic hyperinflation.



EXERCISE

PN: 147902-322 | SW ASCENT EXERCISE GX OPTION

This feature allows the user to perform true breath by breath metabolic analysis during cardiopulmonary exercise testing (CPET) for complete assessment of functional capacity and cardiorespiratory diagnostics. Easily interfaces with ergometers (cycles and treadmills).



NUTRITION

PN: 147902-323 | SW ASCENT NUTRITION GX OPTION

This feature allows the user to perform nutritional assessments of resting energy expenditure (REE) and substrate utilization on spontaneously breathing subjects using one of the system's comfortable patient interfaces, including the preVent face mask or face tent.



LAB MANAGEMENT

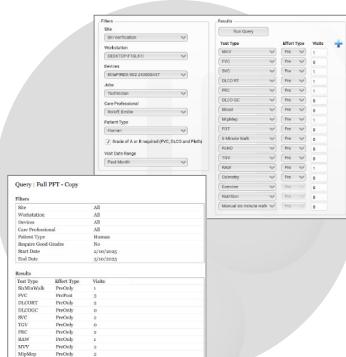
PN: 147902-343 | SW ASCENT LAB MANAGEMENT OPTION

PN: 147902-344 | SW ASCENT LAB MANAGEMENT OPTION - NETWORKED

PN: 147902-345 | SW ASCENT LAB MANAGEMENT OPTION - ENTERPRISE +6

The Lab Manager Tool facilitates the creation of custom queries across key lab elements filters, including Sites, Workstations, Devices, Jobs, and Care Professionals. Users can generate comprehensive reports with a number of different test types, visit types, and number of visits.

This tool streamlines data retrieval, report generation, and ultimately, supports data-driven decision-making within the laboratory environment.





HAST

PN: 147902-321 | SW ASCENT HAST OPTION – SINGLE

PN: 147902-328 | SW ASCENT HAST OPTION - NETWORKED

PN: 147902-339 | SW ASCENT HAST OPTION - ENTERPRISE 6+

High Altitude Simulation Test (HAST) which tests a patient's ability to deal with the physiologic demands of high altitude. A HAST test can aid in the assessment of specifically compromised patients planning on air travel or vacations at higher altitudes in order to ultimately determine risk of oxygen desaturation. The test does not require the collection of traditional GX data. Ascent will allow users to enter results or events manually or perform a test with SpO_2 and Heart Rate data collected.



Test Data Logger			
/ Enable Test Data Logger			
Test Data Logger Path			
C:\Program-Data\MCG Diagnostics\Ascent\Test Data			
Decimal Places	2	3	4
Days to Retain Log Files	7	14	30

A	B	C	D
1	Time	Elapsed(sec)	FlowLps
2	56:26.1	0.52	0.064
3	56:26.1	0.525	0.052
4	56:26.1	0.53	0.057
5	56:26.1	0.535	0.065
6	56:26.1	0.54	0.067
7	56:26.1	0.545	0.069
8	56:26.1	0.55	0.062
9	56:26.1	0.555	0.052

TEST DATA LOGGING

PN: 147902-346 | SW ASCENT TEST DATA LOGGING OPTION

The Test Data Log is a research-focused tool designed to capture and record detailed data points from active channels during specific respiratory tests. This tool facilitates in-depth analysis and validation by logging raw data streams.

This tool provides researchers with the raw data necessary for detailed scientific investigations of supported respiratory tests.

PATIENT QUERY

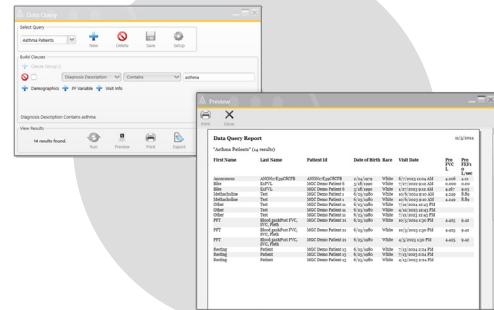
PN: 147902-330 | SW ASCENT DATA QUERY – SINGLE

PN: 147902-325 | SW ASCENT DATA QUERY – NETWORKED

PN: 147902-338 | SW ASCENT DATA QUERY – ENTERPRISE 6+

The Data Query option can be used to compile a list of patients that meet predefined criteria for use in studies or other research. The user or researcher can query a standard SQL database for one to numerous criteria such as patient demographic information, PF variables and visit information. Several queries can be created, depending on the values required for the study.

Data Query has options to easily print or preview reports and export data from the patient database in Comma Separated Values (CSV) or Microsoft® Excel formats. Users and researchers can then view and manipulate the data to suit their particular needs.



LEARN MORE ABOUT
ASCENT SOFTWARE!



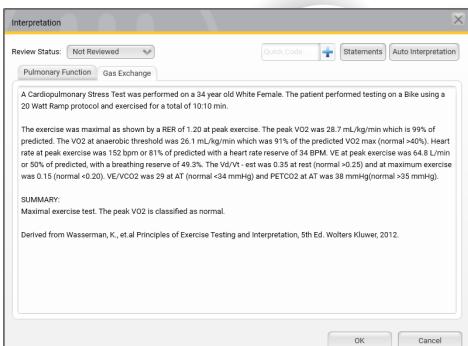
SCAN QR CODES!

mgcdiagnostics.com/products/ascent-software

Analysis

Powerful analysis and expert interpretation

Accurate Pulmonary Function and Exercise data interpretation is essential. Ascent offers both automated interpretation algorithms and manual review by healthcare professionals to identify respiratory limitations and assess overall cardiopulmonary health.



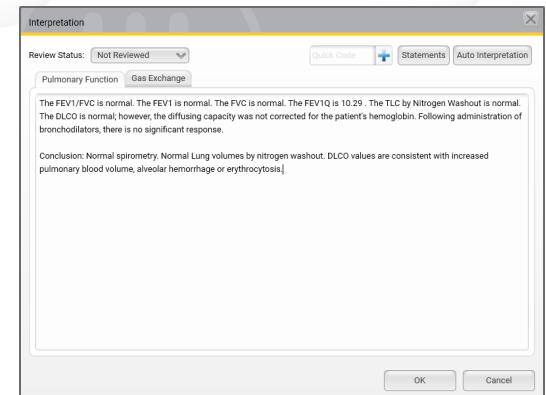
EXERCISE CONSULT

PN 147902-313 | SW ASCENT EXERCISE CONSULT OPTION – SINGLE

PN 147902-314 | SW ASCENT EXERCISE CONSULT OPTION - NETWORKED

PN: 147902-335 | SW ASCENT EXERCISE CONSULT OPTION - ENTERPRISE +6

Exercise Consult is the ability for a user with appropriate permissions to run an automatic exercise consultation for a patient visit using a set of rules created and edited by the user along with their interpretation statements to populate the consulting interpretation of the visit.



PULMONARY CONSULT

PN: 147902-304 | SW ASCENT PULM CONSULT OPTION – SINGLE

PN: 147902-309 | SW ASCENT PULM CONSULT OPTION - CPFS/D – SINGLE

PN: 147902-310 | SW ASCENT PULM CONSULT OPTION – NETWORKED

PN: 147902-334 SW ASCENT PULM CONSULT OPTION - ENTERPRISE +6

Pulmonary Consult is an automated tool that uses predefined rules to analyze patient visit data and generate a pulmonary consultation report. This report includes an interpretation based on the 2022 ATS/ERS Pulmonary Interpretation guidelines, including a statement for potential Zephyr Valve candidates. The tool also incorporates the 2022 Interpretive Strategies, which analyze changes in FEV1Q over time.



EXERSCRIPT

PN: 147902-317 | SW ASCENT EXERSCRIPT OPTION – SINGLE

PN: 147902-327 | SW ASCENT EXERSCRIPT OPTION - NETWORKED

PN: 147902-342 | SW ASCENT EXERSCRIPT OPTION - ENTERPRISE 6+

Exerscript analyzes patient data to provide a prescriptive exercise program for the patient.

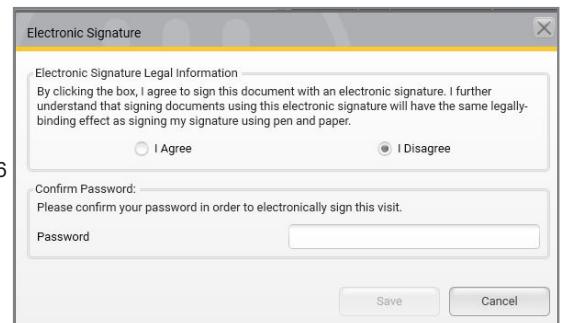
ELECTRONIC SIGNATURE

PN: 147902-303 SW ASCENT ELECTRONIC SIGNATURE OPTION - SINGLE

PN: 147902-308 SW ASCENT ELECTRONIC SIGNATURE OPTION - NETWORKED

PN: 147902-333 SW ASCENT ELECTRONIC SIGNATURE OPTION - ENTERPRISE +6

Electronic Signature is a way for the interpreting physician to complete the pulmonary or exercise interpretation and to electronically sign his/her name to that interpretation. Once a patient visit has been signed, the visit and all of its associated data is locked and may not be changed except by someone who has the rights to do so. If the interpretation is changed, the original electronic signature is removed.



Data

NETWORKING

PN 147902-302 | SW ASCENT NETWORKING OPTION - PF/GX

PN 147902-306 | SW ASCENT NETWORKING OPTION - CPFS/D

- Links diagnostic and review workstations to share and store data in a central Microsoft SQL Server® database.
- This allows all workstations to use one database, either through a local area network (LAN) or a wide area network (WAN).
- Reports, reference values, and statements can be standardized across sites.



OFFLINE MODE

PN 147902-311 | SW ASCENT OFFLINE MODE OPTION/WORKSTATION

Offline testing refers to the ability of a user to utilize Ascent while no longer connected to a shared/network database. Ascent requires a connection to our SQL database at all times. Two offline modes have been implemented: "network outage" and "remote testing." Remote testing can be used if there is a need to use Ascent while not having the ability to be connected to the network databases; the application can be taken "offline," and the user can continue to perform patient tests. Network Outage is used when the disconnection to the network unexpectedly occurs; the system will automatically go to network outage, and testing can still be performed. Either way, when the network becomes available again, the offline mode database can be synced back to the network database.



AUTOMATIC EXPORT

PN 147902-312 | SW ASCENT AUTOMATIC EXPORT OPTION - SINGLE

PN 147902-329 | SW ASCENT AUTOMATIC EXPORT OPTION - NETWORKED

PN 147902-337 | SW ASCENT AUTOMATIC EXPORT OPTION - ENTERPRISE 6+

Allows users to export a PDF or Text Report to a specific location. The export option determines if the selected PDF or Text Reports are exported upon the posting of the patient visit and if the option to update the report is available in Physician Review.

Export Options

Export Option Unlocked PDF/Text Export

Report

Text Report

Export Location

Export Data File

DATA FILE EXPORT

PN 147902-324 | SW ASCENT DATA FILE EXPORT – SINGLE

PN 147902-330 | SW ASCENT DATA FILE EXPORT - NETWORKED

PN 147902-341 | SW ASCENT DATA FILE EXPORT - ENTERPRISE 6+

Allows users to export an XML file to a specific location. The export option determines if XML data is exported upon the posting of the patient visit.

Export Options

Export Option Locked PDF/Text Export (Review only)

Report

Current Visit Status: Complete

MGC DIAGNOSTICS CORPORATION, through its subsidiary Medical Graphics Corporation
350 Oak Grove Parkway St. Paul, Minnesota USA 55127-8599

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Part# 061386-001 RevC