Minimum Equipment Requirements (Updated 01/02/2018)

Below are "MINIMUM" Requirements for your hardware setups:

Please make sure you provide a copy of this to your Hardware Provider/ IT Staff

General

Anti-Virus Software (Recommended):

AVG Business Anti-Virus

(If using another virus protection please make sure that you get your tech to contact our technical support department to eliminate anything with the Aralco Software being blocked)

*** IMPORTANT *** Please make sure that the automatic scan or software update are performed after store hours otherwise this will affect your system performance and slow down functions such as inventory lookup/ reports/ saving transactions etc. Please provide this information and warning to your IT Staff/ Hardware supplier and make sure they follow these recommendations. Failure to do so will result in service charges from Aralco.

General

Operating System Updates

*** IMPORTANT *** Please make sure that the "Automatic" checking for updates, download and installation of software updates for your server & Back Office workstations and POS computers is TURNED OFF entirely. These automatic updates affect your system performance and may result in bringing the entire system down. *Windows Regional Settings should be set to "USA English"*

Your IT staff/ HW technicians should be made fully aware of this and do the operating system upgrades MANUALLY and outside store operating hours. Failure to do so will result in service charges from Aralco.

Intenet Connections for Server, POS & Back Office Workstations

Internet at Head Office Server

Internet Connection:

Commercial / Business internet connection with a **static IP address**.

Router Configuration:

Ports required open: **MS SQL – 1433**

Business class firewall/router Eg. Cisco RV130 for single location, Cisco RV320 for multi-location where VPN is required

IF NOT running a proper server operating system with DNS, recommend use of a "HOSTS" file along with the simple DNS supplied by your router

Access for Work Stations and POS Terminals

The ports should be pointing to the Server computer and then setup so internal connections can take place from the server computer accordingly. Your technician could also configure different port numbers for different computers for direct connections.

Anti-Visrus

Use of anti-virus software for Server, POS & Back Office Workstations

Antivirus and security software:

-specifically exclude the Aralco directory from the "auto-protect" portion of the antivirus product. Additionally, also may require exclusions separately defined for antispyware or other components of the security suite in some cases. If the exclusions are 'centrally' managed and applied, please CONFIRM they are in effect on all Aralco stations.

-on the server, a special set of exclusions for the various components of the SQL server and database, as well as Aralco components.

General

POS & Back Office Workstations

Processor: Intel Core i3 / AMD Quad Core A-12

RAM: 4GB

Hard Drive: 100GB

Wired 10/100/1000BT Network Connection (wireless connection NOT recommended)

Operating System: **MS Windows 7 Pro, 8.1 Pro or 10 Pro** (not "Home Edition")

*** PLEASE NOTE: Although the Aralco software currently operates on Windows XP Pro, we are no longer supporting this in our development efforts. You may be required to upgrade existing workstations depending on desired features.

Remote Access: TeamViewer (available from http://aralco.com/help)

Back Office *Back Office*	**Laser Printer** **Barcode Printer:** Zebra GK420 or LP-2844 (Optional) ***Generic Text Driver is required*** ***PLEASE NOTE: If Zebra Barcode Printer is purchased elsewhere (other than Aralco) there will be a $50 setup fee per item, if assistance is required*** **For POS machines, it is recommended to have 4 to 6 USB ports** *For POS machines, you can opt for a 15" to 17" Touch Screen upgrade from a standard flat screen*
POS *Peripherals*	**Receipt Printer:** Epson TM-T88IV Thermal Printer ***Epson Printer Driver is required*** **Barcode Printer:** Zebra GK420 or LP-2844 (Optional) ***Generic Text Driver is required*** **POS Scanner (USB- Recommended):** Windows Compatible. (Must be able to scan an item into Notepad) **Cash Drawer:** 19" MMF Cash Drawer **Customer Display Pole - Epson (**Optional**)**
General Server *Specification*	**For ALL Operations, even single location, minimum RAID 1 mirrored hard drives, AND drives should be premium 7200rpm, 32mb cache.** *For more than a single location:* **Good quality VPN/gateway appliances at each location, capable of bandwidth management (based on 2-3 terminals per store, 200kbps guaranteed to each site to site VPN) eg. Sonicwall TZ 210 at server location and TZ180 at each store.** *For 6-10 Stores Server:* **-Strongly recommend RAID 5 array, and 10,000 rpm drives.** **-redundant server-class power supplies** **-at this level, recommend moving to higher bandwidth business level WAN solutions** ****Basic Business plans usually do NOT guarantee a minimum "upload" bandwidth, so many locations suffer with only 500 to 700kbps upload speed at times. While this is ok for a satellite store with only 2 or 3 terminals, your server location will need approximately 10MBPS upload to start depending on the number of locations.**
Single Store *Server*	**Processor**: Intel Core i5-6500 **RAM**: 8GB **Hard Drive**: 250GB (RAID 1 Recommended) SSD Wired 10/100/1000BT Network Connection (wireless connection NOT recommended) **Database Software: Microsoft SQL Server 2014 or 2016 Express Edition** **NAS Storage Device or Off-site Backup Service** **Operating System**: **MS Windows 7 Pro, 8.1 Pro or 10 Pro** (not "Home Edition") **Remote Access:** TeamViewer (available from http://aralco.com/help) or RDP (forwarded at router)
Two Store Server	**Processor**: Intel Core i7-6700 **RAM**: 16GB **Hard Drive**: 250GB (RAID 1 Recommended) SSD Wired 10/100/1000BT Network Connection (wireless connection NOT recommended) **Database Software: Microsoft SQL Server 2014 or 2016 Standard Edition** **NAS Storage Device or Off-site Backup Service** **Operating System**: **MS Windows 7 Pro 64-bit, 8.1 Pro 64-bit, or 10 Pro 64-bit** (not "Home Edition") **Remote Access:** TeamViewer (available from http://aralco.com/help) or RDP (forwarded at router)
3 to 5 Stores *Server*	**Processor**: Intel Xeon Processor **RAM**: 16GB **Hard Drive**: 250GB (RAID 1 Recommended) SSD Hardwired Network Connection **Database Software: Microsoft SQL Server 2012, 2014 or 2016 Standard Edition** (older editions may be supported but not recommended) **Operating System**: Windows Server 2012 R2 Standard (minimum) **NAS Storage Device or Off-site Backup Service**

Remote Access: TeamViewer (available from http://aralco.com/help) or RDP (forwarded at router)

6 - 10 Stores Server	**Processor**: Intel Xeon Processor
	RAM: 32GB
	Hard Drive: 250GB (RAID 5 Recommended) SSD
	Dual 1GB LAN Connection
	Database Software: Microsoft SQL Server 2012, 2014 or 2016 Standard Edition (older editions may be supported but not recommended)
	Operating System: Windows Server 2012 R2 Standard (minimum)
	NAS Storage Device or Off-site Backup Service
	Remote Access: TeamViewer (available from http://aralco.com/help) or RDP (forwarded at router)
11 - 19 Stores Server	**Processor**: Intel Xeon Processor
	RAM: 64 - 96GB
	Hard Drive: 250GB (RAID 5 Recommended) SSD
	Dual 1GB LAN Connection
	Database Software: Microsoft SQL Server 2012, 2014 or 2016 Standard Edition (older editions may be supported but not recommended)
	NAS Storage Device or Off-site Backup Service
	Operating System: Windows Server 2012 R2 Standard (minimum)
	Remote Access: TeamViewer (available from http://aralco.com/help) or RDP (forwarded at router)
25+ Stores Server Minimum Requirement	**Processor**: Intel Xeon Processor
	RAM: 128GB
	Hard Drive: 250GB (RAID 5 Recommended) SSD
	Dual 1GB LAN Connection
	Database Software: Microsoft SQL Server 2012, 2014 or 2016 Standard Edition (older editions may be supported but not recommended)
	NAS Storage Device or Off-site Backup Service
	Operating System: Windows Server 2012 R2 Standard (minimum)
	Remote Access: TeamViewer (available from http://aralco.com/help) or RDP (forwarded at router)

PLEASE CONTACT ARALCO for further assistance when purchasing servers for operations larger than 20 connections to the server