New WAVE (Water Application Value Engine) modeling software from Dow integrates three leading technologies—ultrafiltration, reverse osmosis and ion exchange—into one comprehensive tool. Its robust range of features and powerful calculation engine let you model more efficiently and accurately, designing better performing multi-technology systems, faster.

- **3 technologies** under one common and user friendly interface
- **Improved** and consistent algorithms
- **Harmonized data** for all products and processes
Powerful improvements for modeling efficiency.
WAVE upgrades the best features of the Dow ROSA, UFLOW, IXCALC and CADIX programs, while bringing key technologies together in one common, user-friendly, time saving interface.

Ultrafiltration (UF) Features:
- Includes the latest Dow UF products: DOW IntegraFlux™ and DOW IntegraPac™ UF Modules with XP Fiber
- Discriminates between drinking vs. non drinking products
- Updated design guidelines and pressure rating curves
- Membrane integrity testing capabilities
- Ability to specify pH of chemical enhanced backwash (CEB) and clean in place (CIP), introduce trans-membrane pressure (TMP) slopes for BW/CEB/CIP, design for constant flux vs. constant output and use RO concentrate for cleaning

Reverse Osmosis (RO) Features:
- Offers the latest Dow RO products data base with calculation improvements, including DOW FILMTEC™ FORTILIFE™ and FILMTEC™ ECO Elements
- Improved ISD capability – each element in a pressure vessel can now be uniquely defined
- Split permeate available with ISD
- Bypass, pass and stage level concentrate recycle loops
- New system level hydraulic flow calculator
- Batch modeling with the possibility of simultaneous batch case creation
- Design warnings by element position
- Addition of pressure drop in reports

Ion Exchange (IX) Features:
- Includes the full Dow IX product line
- Harmonized data for all processes and resins
- Ability to model 13 IX processes including softening, dealkalinization, demineralization, RO/IX polishing, condensate polishing, and nitrate removal
- Seven IX regeneration schemes including co-current, water or air blocked packed beds, AMBERPACK™, UPCORE™ IX Systems, and internal and external mixed beds

Software Requirements
- Windows Installer 3.1 or higher
- Microsoft .NET Framework 4.0 Client
- SQL Server Compact Edition 3.5 or higher

Hardware Requirements
Minimum Disk Space required:
- 120 MB (for WAVE Application)
- 50 MB (Net Framework Client Profile)
- 3 MB (for SQL Server CE)

Operating System Requirements
One of the following OS required:
- Windows XP Service Pack 3
- Windows 10
- Windows Server 2008
- Windows Vista
- Windows 7 Ultimate/ Professional/ Enterprise / Home Premium/ Home Basic

To learn more about WAVE and download the software for free, visit www.dow.com/wave

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