for Water Treatment
A DUE: Designs, Manufactures and Installs complete plants for management and treatment of the water used for the preparation of beverages, offering a wide range of solutions. Depending on the initial water characteristics and on the desired quality, various treatments and technologies, enhanced by the use of high quality components, can be combined for processing of more than 100,000 l/h.

**Preliminary treatment**

- Water intake, Chlorination, Filtration
  - Water intake from wells or city mains (Entry Point).
  - Preliminary disinfection (First. Chlorination).
  - First filtration by means of: self-cleaning filter and/or sand filter and/or Ultrafiltration - EASY.UF - and/or carbon filter.

- Reception, cloración, filtración
  - Recepción de agua de pozo o de acueducto (Entry Point).
  - Desinfección preliminar (First. Chlorination).
  - Primera Cloración con: filtro autolimpante y/o un filtro de arena y/o ultrafiltración - EASY.UF - y/o filtro de carbón.

- Réception, Chlorination, Filtrage
  - Réception de l’eau de puit ou de station de pompage (Entry Point).
  - Desinfection préliminaire (First. Chlorination).
  - Filtrage initial avec: filtre autonettoyant et/ou filtre à sable et/ou Ultrafiltration - EASY.UF - et/ou filtre à charbon.

- Ricevimento, Chloration, Filtrazione
  - Ricevimento acqua di pozo o da acquedotto (Entry Point).
  - Disinfezione preliminare (First.Chlorination).
  - Prima Filtrazione con: filtro autopulente e/o filtro a sabbia e/o Ultrafiltrazione - EASY.UF - e/o filtro a carbone.

**Final treatment**

- Demineralization, Disinfection and Deaeration
  - Demineralization by means of Reverse Osmosis - EASY.RO.
  - Disinfection by means of UV lamp or through ozone dosage - EASY.Ozone.
  - Single-stage or double-stage deaeration (Deaerator.Unit).

- Desmineralización, desinfección, desaireación
  - Desmineralización por ósmosis inversa - EASY.RO.
  - Desinfección por lámparas UV o con dosaje de ozono - EASY.Ozone.
  - Dessaeración a simple o double stade (Deaerator.Unit).

- Déménalisation, Désinfection, Désaération
  - Démonalisation par Osmose Inverse - EASY.RO.
  - Désinfection par lampes à rayons ultraviolets UV ou par dosage d’ozone - EASY.Ozone.
  - Désaération à simple ou double stade (Deaerator.Unit).

- Demineralizzazione, Disinfezione, Deaerazione
  - Demineralizzazione tramite osmosi Inversa - EASY.RO.
  - Disinfezione mediante lampade UV oppure con dosaggio ozono EASY.Ozone.
  - Deaerazione a singolo o doppio stadio (Deaerator.Unit).
Salts and flavourings dosage - Easy.RM

A DUE Designs, manufactures and installs complete plants for salts and flavourings in-line micro dosing, offering the solutions for:
- Dissolution in water of mineral salts (concentrated solutions).
- In-line and continuous dosing of the concentrated solution.
- Rigorous control of flow capacity, pH and conductivity.
- Final disinfection with the use of UV lamps, ozone - EASY.Ozone, or with thermal treatments.

AUTOMATION - EASY.Drive

Thanks to a team of qualified professionals specialized in Beverage Processing, A DUE develops and implements customized management programs using its own SCADA EASY.Drive or the most widespread platforms (Siemens WinCC TIA Professional, Wonderware/System Platform, Rockwell Factory Talk, etc.), according to the following drives:
- intuitive management, according to thematic areas, for immediate understanding by the operator;
- access control and management of different access level operators’ passwords by means of LDAP protocol;
- data acquisition with Client-Server architecture and with redundant Servers;
- operational reporting to service the production and/or maintenance managers;
- data sharing through corporate networks;
- easy integration with the other existing SCADA installations;
- traceability and total control of the beverage preparation process, including management of the trends, alarms, log-events, process and plant parameters;
- connectivity of the customer: remote access, through tablet PC or smartphone;
- assistance provided by A DUE technicians through remote access via VPN;
- active diagnostics for fault management, plant alarms, trouble-shooting and planned maintenance;
- plant intelligence pack, for ingredients consumption and service fluids and energy demand counting, with calculation of plant OEE performance (KPI indices or availability, quality and yield performance).

Process water recovery - NIAGARA

A DUE has developed the research project “Less-Water Bev. Tech” (nicknamed NIAGARA) aimed at recovering and reusing the water intended to be drained during the processes of beverages preparation and bottling through a combination of innovative technical solutions and water treatment technologies.

A DUE - Conçoit, Construit et Met en Place des installations complètes pour le micro-dosage en ligne de sels et arômes, en proposant des solutions complètes pour:
- Dissolution des sels dans l’eau (solution concentrée);
- Dosage en ligne et en continu de la solution concentrée;
- Contrôles minutieux de capacité, pH et conductivité;
- Désinfection finale par rayons UV, par ozone - EASY.Ozone, ou par traitements thermiques.

A DUE - Progetta, Costruisce, installa impianti completi per micro-dosaggio in linea di sali e aromi, proponendo soluzioni complete per:
- Dissoluzione dei sali in acqua (soluzione concentrata);
- Dosaggio in linea ed in continuo della soluzione concentrata;
- Accurati controlli di portata, pH e conducibilità;
- Disinfezione finale con UV, con ozono - EASY.Ozone, o con trattamenti termici.

A DUE - ha sviluppato il progetto di ricerca “Less-Water Bev. Tech” (nickname NIAGARA) per la recupero e riutilizzo dell’acqua destinata al drenaggio, durante il processo di preparazione e imbottigliamento delle bevande, attraverso una combinazione innovativa di accorgimenti impiantistici e tecnologie di trattamento.